

Historic, Archive Document

Do not assume content reflects current
scientific knowledge, policies, or practices.

UNITED STATES
DEPARTMENT OF AGRICULTURE
LIBRARY

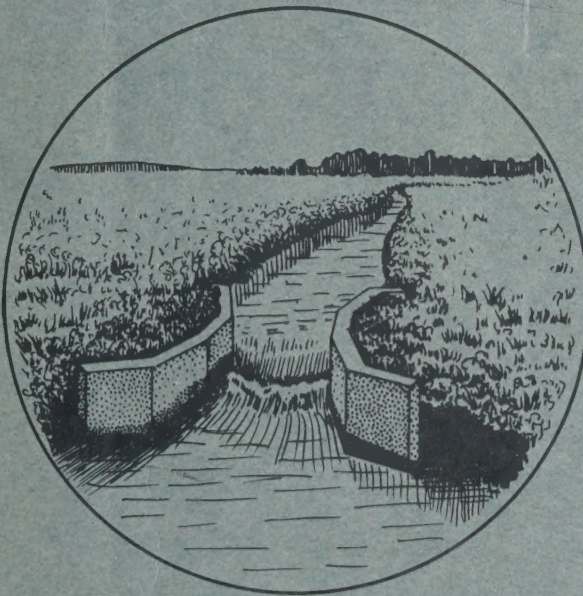


Reserve
BOOK NUMBER 1.9
En32I
505207

En 321 456 R
RE CARVA

IRRIGATION

A Selected Bibliography



Compiled
by
Dorothy W. Graf, *Librarian*

U.S. Department of Agriculture
U.S. Bureau of Agricultural Engineering

1938

132 NO. 6017

U.S.D.A.
LIB

Rub
JUL 15 1944

UNITED STATES
DEPARTMENT OF AGRICULTURE
LIBRARY



BOOK NUMBER 1.9
En321
Reserve

505207

GPO 8-7871

ADP
811

We have been accustomed to think of irrigation as a problem affecting only our western states, but recent technical developments and a succession of drouth years, have made the entire nation irrigation conscious. This bibliography has been prepared with the hope that it will be of service in working out the complex irrigation problems which still await solution in all sections of the country.

Naturally, due to great repetition of ideas in many articles, this is not a complete bibliography on the subject. Also, many articles appear in one publication, and subsequently are published in the same form or abstracted in other publications. There has been an attempt to discard material, and to group together references to the original and subsequent reprints, abstracts or discussion.

The material is arranged by subject; with an author index to simplify in its use. Also many articles have been abstracted.

The bibliography has been compiled from the catalogues in the Department of Agriculture and Library of Congress, supplemented by material from the Engineering index, the Agricultural index, and the Industrial arts index. It includes references to books, periodicals and publications of societies through 1937.

TABLE OF CONTENTS

	Page
General.....	6-26.
Associations.....	26-27.
Bibliography.....	28-29.
Crops.....	29-54.
Alfalfa, soybeans, timothy.....	30-32.
Cereals.....	32-33.
Citrus.....	34-36.
Cotton.....	36-39.
Lettuce.....	39-40.
Nuts.....	40.
Orchards.....	40-44.
Potatoes.....	44-46.
Rice.....	46-48.
Small fruits.....	48-49.
Sugar beets.....	49-50.
Sugar cane.....	50-52.
Vineyards.....	52.
Wheat.....	53-54.
Districts.....	54-55.
Economics.....	55-58.
Equipment and structures.....	58-81.
General.....	58-60.
Dams.....	60-71.
Designs and estimates.....	71-72.
Machinery.....	72-74.
Models.....	74.
Reservoirs.....	74-81.
Experiments and research.....	81-93.
Failures.....	93-94.
Finance.....	94-105.
Costs.....	100-105.
Health hazards.....	105-106.
History.....	106-108.
Hydraulics.....	109-119.
Hydroelectric power developments.....	119-123.
Irrigated lands.....	123-129.
General.....	123-125.
Forest.....	125.
Garden.....	126-127.
Meadow.....	127-129.
Irrigation farming.....	129-150.
Irrigation water.....	150-164.
Land settlement.....	164-165.
Laws and legislation.....	165-180.
Loss of water.....	181-186.
Maintenance.....	186-187.
Measurement.....	187-193.

Methods.....	193-216
General.....	193-196
Border.....	196-197
Check.....	197
Corrugation	197
Flood.....	197-198
Overhead.....	198-205
Porous hose.....	205-206
Sewage.....	206-214
Underground	214-216
Projects	216-225
Pumps and pumping.....	225-242
Reclamation	242-254
Reports.....	254-255
Soils.....	255-259
Statistics.....	259-261
Structures.....	262-266
Tables, calculations, etc.	266-267
Terminology	267
Water conveyance	267-301
Canals.....	267-294
Ditches.....	294-295
Flumes	295-299
Pipes and tunnels	299-301
Water rights	301-312
Water supply.....	312-330

Abyssinia	330
Africa	330-335
Arizona	335-342
Arkansas.....	342
Asia	342-343
Australia	343-353
Belgium.....	353
Bulgaria.....	353
California	353-383
Canada	383-389
China.....	390-391
Colorado	392-399
Colorado river.....	399-405
Columbia basin.....	406
Connecticut.....	406
Dutch East Indies.....	406
Eastern states.....	407-408
Egypt.....	408-419
Europe.....	420
Federated Malay states	420
Florida.....	420

	Page
Formosa	420
France	420-423
Germany	423-424
Great Britain	424
Great Plains	424-425
Greece	425
Hawaiian Islands	425-427
Hungary	427
Idaho	427-432
India	432-451
Indo-China	451-452
Iowa	452
Italy	452-458
Java	458
Kansas	458-461
Latvia	461
Louisiana	461
Mesopotamia	461-462
Mexico	462-470
Michigan	470
Minnesota	470-471
Missouri	471
Montana	471-475
Natal	475
Nebraska	475-477
Netherlands	478
Nevada	478-480
New Jersey	480-481
New Mexico	481-485
New Zealand	485-486
North America	486
North Dakota	486-487
Northwestern states	487
Ohio	487
Oklahoma	487-488
Oregon	488-494
Pacific coast	494
Palestine	494
Persia	494-495
Philippine Islands	495
Portugal	495-496
Rhodesia	496
Roumania	497
Russia	497-498
Siam	498-499
South Africa	499-505
South America	505-510
South Carolina	510
South Dakota	510-511
Southern states	511
Southwestern states	512-513
Spain	513-518
Sweden	518

Switzerland	518
Syria	518
Texas	518-522
Turkestan	522-523
Turkey	523-524
United States	524-549
Utah	549-552
Washington	552-558
West Indies	558-561
Western states	561-569
Wyoming	569-574
 Author index	 575-631

GENERAL

- Advantages and method of watering methods by art. 2d edition. With occasional extracts and remarks upon Wimpey, Forbes, Boswell, and other writers on this subject. Thomas Wright. Cirencester, Printer by S. Rudder, 1790. 48p.
- Agriculture and irrigation in continental and tropical climates. Kinsley D. Doyle. London, Constable and company, Ltd., 1921. 268p.
- Da agua para as regas. Joao de Andrade Corvo. Lisboa, Empresa commercial e industrial agricola, 1881. 116p.
- Algunas consideraciones fundamentales respecto al riego. La hacienda. v. 17. p.249-250. August 1922.
- American irrigation farming; a systematic and practical treatment of every phase of irrigation farming, including its history, with statistical tables and formulas. W.H. Olin. Chicago, A.C. McClurg and co., 1913. 364p.
- American waterways. American academy of political and social science. Philadelphia, Pa., 1908. 299p.
- A.S.C.E. irrigation division papers. Engineering news record. v.99. p.104. July 21, 1927.
- Annual report of irrigation and drainage investigations, 1904. R.P. Teele and others. U.S. Department of agriculture. Office of experiment stations. Experiment station record no.158. Washington, D.C., 1905. 755p.
- Arid agriculture; a hand-book for the western farmer and stockman. B.C. Buffum. Worland, Wyo., The author, 1909. 443p.
- Army of wealth-creators vs. an army of destruction. B.O. Flower. Arena. v.25. p.521-546. May 1901.
- Arrosage des cultures sous differents climats. L. Rigotard. Academie d'agriculture de France. Comptes rendus. v. 15. p.934-937. November 13, 1929.
- Les arrosages. A. Goumy. Journal d'agriculture pratique. v.58. p.136-137. August 13, 1932.
- Art of floating of lens as is practiced in the county of Gloucester, shewn to be preferable to any other method in use in this country; with a particular examination of what Mr. Boswell, Mr. Davis, Mr. Marshall and others, have written on the subject. Minute and plain directions are afterwards given, for the formation of a floated meadow. Thomas Wright. London, 1799. 95p.
- Artificial rain. Scientific american. v.104. p.384. April 15, 1911.

- Barren lands of America. C. Marriett. Munsey's magazine. v. 28.
p.74-78. October 1902.
- Beitrag sur wasserwirtschaft und ihrer bedeutung fur die land- und
volkswirtschaft ... Heinrich N. Claus. Plauen i. V., M.
Wieprecht, g.m.b.h. 1904. 105p.
- Los beneficios de la irrigacion. J.R. MacLaren. La Hacienda. v.21.
p.281-282. September 1926.
- Bewasserung und entwasserung der acker und wiesen. L. Vincent. Berlin,
P. Parey, 1909. 151p.
- Cole's combined system of drainage and irrigation. "A new system of
agriculture originated by A.N. Cole, Wellsville, Allegany co., N.Y.
A.P. Cole. Brooklym, 1889. 103p.
- Complete text-book of farm engineering, comprising practical treatises
on draining and embanking; irrigation and water supply; farm roads,
fences, and gates; farm buildings; barn implements and machines;
field implements and machines; and agricultural surveying. John Scott.
London, C. Lockwood and co., 1885. 7v. in 1.
- Conquest of arid America. William E. Smythe. New York and London,
Harper & bres., 1900. 325p.
- Contributions a l'etude du drainage et de l'irrigation. Charles Eugene
Risler. Annales de l'institut national agronomiques.
series 2, tome 2. p.5-18. 1903.
- Control of the biological factor in soil fertility by irrigation. C.M.
Hutchinson. Tropical agriculture. v. 65. p.156-159.
September 1925.
- Control of water; as applied to irrigation, power and town water supply
purposes. P. a M. Parker. New York, D. Van Nostrand co., 1925.
1062p.
- Date book. Western irrigation equipment association. San Francisco,
c1923. 42p.
- De la creation des prairies irriguees. W.F. Dunkelberg. Paris, 1869. 215p.
- Describeion del aparato Furque para distribucion de aguas de riego y
desarenderes. Hilarion Furque. Buenos Aires, Imprenta de obras,
de J.A. Berra, 1895. 19p.
- Development of the arid regions of the west of irrigation. An argument
before the House committee on agriculture in favor of the Jornada and
El Paso reservoir and canal company. John B. Bowman. Washington,
Gibson bros., printers and bookbinders, 1888. 16p.

- Discussion of irrigation and cover crops. L. Anderson. California
cultivator. v. 59. p.661 December 23, 1922.
- Does it pay to irrigate. W. Perkins. Rural New Yorker. v. 82.
p.1360. November 3, 1923.
- Doing without rain on the modern farm. Scientific american. v.118.
p.363. April 20, 1918.
- Don't pray for rain - buy it. F.F. Rockwell. Independent. v.99.
p.160. August 2, 1919.
- Drainage of land, irrigation and manures. Arthur Roland. London, 1880.
192p.
- Dry farming: System of agriculture for countries under a low rainfall.
John A. Widdsoe. New York, Macmillan company, 1911. 445p.
- Effect of irrigation on the growth and composition of plants at different
periods of their development. J.A. Widdsoe and Robert Stewart.
Utah. Agricultural experiment station. Bulletin no. 119.
Logan, Utah, 1912. 169-200p.
- Efficiency in irrigation. G.E.P. Smith. California cultivator.
v. 55. p.830. December 25, 1920.
- Elementary principles of irrigation - Lateral construction. F.W. Hanna.
Engineering news. v. 65. p. 96-97. January 26, 1911.
Discusses lateral cross-section, drops, tap boxes, weir crests, checks,
lateral banks, water losses, etc.
- Engineering and irrigation. Engineering magazine. v.30. p.121-123.
October, 1905.
- Engineering feats and cheaper food supplies. Scientific american
supplement. v. 73. p.267. April 27, 1912.
- Engineering principles applied to farm irrigation. A.L. Harris.
Engineering news. v. 70. p.1172-1175. December 11, 1913.
Remarks on the advisability of applying scientific principles in the
application of water to land, reporting some of the work showing
progress.
- Engineering work and food supply. F.H. Newell. Engineering and con-
tracting. v. 49. p.263-264. March 13, 1918. Great
possibilities of irrigation and drainage.
- Every man his own truck farmer and the selling of city water for irrigation.
Engineering and contracting. v. 47. p.245. March 14, 1917.
- Extracts on irrigation; presented by Mr. Stewart. Washington, D.C.
Government printing office, 1902. 38p. U.S. 57th congress. Senate.
Document no.446.

- Factores en problemas de riego. D.W. Bloodgood and A.S. Curry.
Sugar. v.29. p.450-451. September 1927.
- Factores en problemas de riego. D.W. Bloodgood and A.S. Curry.
Sugar. v.30. p.42. January 1928.
- Farm notes for 1893. W.W. Cooke and F.L. Watrous - Garden notes for
1893. M.J. Huffington and C.S. Crandall - Seeding, tillage, and
irrigation. F.A. Huntley. Colorado. Agricultural experiment
station. Bulletin no.26. Fort Collins, Colo. 1894. 31p.
- Farmer and his showers. R.G. Skerrett. St. Nicholas. v.43.
p.942-944. August 1916.
- Feldberechnung und betriebsorganisation in der landwirtschaft. Untersuchungen
uber die wirtschaftlichkeit neuzeitlicher berechnungsverfahren unter
verschiedenen naturlichen und wirtschaftlichen bedingungen. Gunther
Schonnopp. Landwirtschaftliche jahrbucher. v. 70. p.845-931 1929.
- Few hints to students of irrigation engineering. A.M. Ryon. School of
mines quarterly. v.18. p.161-167. January 1897. Work in this
field that will be required in the future, and the importance that the
irrigation engineer should understand the laws and business side of the
undertaking.
- Few notes on irrigation. Boris Levitt. School of mines quarterly.
v. 32 p.43-50. December 1910. Brief information concerning
things affecting the water supply, methods of irrigation and use.
- Field embankments. T. Gilbert. Agricultural journal of India.
v. 16. p.483-495. September 1921.
- Flood prevention and irrigation. J.R. Burten. North america.
v.177. p.522-532. October 1903.
- For a thirsty land. M.N. Rinoman. Country gentleman. v.104. p.18-19.
May 1934.
- Forests and irrigation: a plea for scientific preservation and growth of
state forests and special cultures. S.K. Gurtu. Agricultural journal
of India. v.16. p.32-39. January 1921.
- Fortschritte im meliorationswesen. August Hess. Leipzig, W.
Engelmann, 1892. 70p. Fortschritte der ingenieurwissenschaften
2. gruppe, 1 hft.
- Frost protection by irrigation. C.W. Skinner. Market growers journal.
v. 20. p.152. February 15, 1917.
- Function of the state engineer in the arid and semi-arid states. Samuel
H. Lea. Engineering news. v.64. p.598. December 1, 1910.
Condensed from address at the National irrigation congress. Deals
principally with their work in relation to irrigation and public control
of water.

- Fundamental principles of modern irrigation practice. W.L. Powers.
Oregon. Agricultural college. Extension service. Circular no.164.
Corvallis, Ore., 1919. 13p.
- Government reclamation work in foreign countries; compiled from consular
reports and official documents. Edward D. McQueen Gray. Washington,
D.C., Government printing office, 1909. 115p.
- Governmental irrigation. Scientific american, supplement. v.57
p.23773-23775. June 11, 1904.
- Gravity water users, beware. Pacific rural press. v.99. p.347.
February 28, 1920.
- Grundzuge der kulturtechnik; ein leitfaden fur landwirtschaftliche schulen
und den praktischen gebrauch des landwirts. Daniel Pilz.
Reichenberg, Nordbohmischer verlag, ges.m.b.h., 1924. 160p.
- Handmade oasis. J.B. Iden. Country gentleman. v.85. p.8.
July 17, 1920.
- Here's where the water goes. R. Newman. Pacific rural press. v.111.
p.401. March 27, 1926.
- Horticulture by irrigation. A.E. Gipson. Denver, Colo., Republican
publishing co., 1888. 138p.
- How irrigation doubles dollars. Market growers journal. v.28. p.38.
January 15, 1921.
- How our national forests conserve irrigation and water-power. Literary
digest. v. 61. p.118. April 26, 1919.
- How the farmer can avert the danger of floods. Current opinion.
v.62. p.61. January 1917.
- Hydraulique agricole. Paul Levy-Salvador. 2d edition. Paris.
H. Dunod et E. Pinat, 1910-1923. 3v.
- Hydraulique agricole. Des submersions fertilisantes comprenant les
travaux de colmatage, limonage, irrigations d'hiver. Nadault de Buffon.
Paris, Dunod, 1867. 492p.
- Hydrologie agricole. Frederic Dienert. Paris, J.B. Bailliere et
fils, 1907. 450p.
- Hydromodule in amelioration. A.N. Kostiakev. International congress
of soil science, 2d. Proceedings. v.6. p.41-64. 1932.
- If the Germans had irrigated. Literary digest. v.54. p.814.
March 1924.

- Importance of water in plant production. Thomas F. Hunt. Clay record. v. 8. p.22-25. March 14, 1896. A scientific dissertation, useful not only to agriculturists, and horticulturists, but to students of the art of irrigation. The writer considers the water supply the most important factor in farming and gardening operations.
- Importancia del riego en el desarrollo de la agricultura. G.D. Puga. Ingenieria internacional. v.18. p.165-168. April 1930. Importance of irrigation in agricultural development. Improvement of arid regions; utilization of underground water; application of compressed air to artesian wells; irrigation with cheap power.
- Influence of irrigation and drainage on farm machinery design and development. B.D. Moses. Agricultural engineering. v.12. p.117-119. April 1931.
- Irrigacion de los canaverales. Sugar. v.26. p.325. June 1924.
- Irrigated lands of United States, Canada and Mexico. Charles R. Price. Supplemented by Irrigated lands of the west coast of Mexico. J. Clyde Power. Los Angeles, Cal., Pan-Pacific press, 1909. 208p.
- Irrigated pastures for northern reclamation projects. F.D. Farrell. Washington, D.C., Government printing office, 1916. 16p.
- Irrigating the garden. L.C. Licher. Idaho. University. Extension division. Club helps no.10. Boise, Idaho, 1918. 4p.
- Irrigation. In U.S. Patent office. Report, 1850. Agriculture. Washington, D.C., 1851. p.361-365.
- Irrigation. American society of civil engineers. Transactions. v.62. p.1-66. 1909. Informal discussion on irrigation problems at the annual convention.
- Irrigation. R.T. Burdick. Vermont. Agricultural experiment station. Bulletin no.182. Burlington, Vt., 1914. 340-363p.
- Irrigation. J.B. Davidson. In his Agricultural engineering. 1920. p.111-140.
- Irrigation. Luther Foster and C.A. Duncan. South Dakota. Agricultural experiment station. Bulletin no.28. Brookings, S.D., 1891. 35p.
- Irrigation. H.D. Leppan. In his Agricultural development of arid and semi-arid regions. 1928. p.24, 227-228, 257-260.
- Irrigation. R.H. McDowell. Nevada. Agricultural experiment station. Bulletin no.25. Reno, Nev., 1894. 55p.

- Irrigation. J.L. Nathews. In his Conservation of water. 1910.
p.176-219.
- Irrigation. F.H. Newell. U.S. Smithsonian institution. Annual
report, 1901. Washington, D.C., 1902. p.407-423.
- Irrigation. Philip A. Morley Parker. In his Control of water as
applied to irrigation, power and town water supply purposes. 2d edition.
1932. p.623-770.
- Irrigation. Charles D. Poston. U.S. Department of agriculture.
Report, 1867. Washington, D.C., 1868. p.193-200.
- Irrigation. Charles D. Poston. Chicago, Ill., J.M.W. Jones
stationery and printing co., 1887. 30p.
- Irrigation. E.T. Rowland. Yale scientific monthly. v.16. p.225-
233. January 1910. Illustrates and describes remains of ancient
irrigation works, and also the modern projects of note.
- Irrigation. J.W. Sanborn. Utah. Agricultural experiment station.
Bulletin no. 24. Logan, Utah, 1893. 8p.
- Irrigation. Frederick Gustavus Skinner. U.S. Patent office. Report,
1849. Agriculture. Washington, D.C., 1850. p.342-362.
- Irrigation. E. Goodrich Smith. U.S. Patent office. Report, 1860.
Agriculture. Washington, D.C., 1861. p.166-224.
- Irrigation. J.T. Stewart and Eugene Davenport. In their Engineering
on the farm. 1923. p.248-268. General survey of
methods of irrigation and its value.
- Irrigation. W.E. Taylor. In his soil culture and modern farm
methods. 1914. p.98-105.
- Irrigation; being a brief treatise compiled from authoritative sources
and containing the full text of the "Carey act". Pittsburgh, Pa.,
Republic bank note company, 1908. 63p.
- Irrigation: Early, late and usual. J.W. Sanborn. Utah. Agricul-
tural experiment station. Bulletin no.27. Logan, Utah, 1894.
8p.
- Irrigation: its evils, the remedies, and the compensations. George
Perkins Marsh. U.S. Department of agriculture. Report, 1874.
Washington, D.C., 1875. p.362-381.
- Irrigation: its principles and practice as a branch of engineering.
Sir Robert Hanbury Brown. 2d edition. New York, D. Van Nostrand
co., 1912. 301p.

- Irrigation - its relation to crop yields, soil and brak (alkali).
H.W. Turpin. Journal of the Department of agriculture of South
Africa. v.5. p.153-163. August 1922.
- Irrigation. Results of irrigation as applied in various countries,
and the benefits to be expected when applied to arid sections of the
United States. Edward Bates Dorsey. With discussion. American
society of civil engineers. Transactions. v.16. p.85-133. 1887.
- Irrigation an ancient practice. J.R. Preddy. American forests.
v.26. p.624. October 1920.
- Irrigation and community development. W.H. Snelson. Canadian engineer.
v.48. p.121-124. January 13, 1925.
- Irrigation and drainage. F.H. Newell. Pan American scientific
congress. Proceedings, 1915. v.3. 1917. p.260-283.
- Irrigation and drainage; principles and practice of their cultural phases.
F.H. King. 8th ed. New York, Macmillan co., 1913. 502p.
- Irrigation and engineering. D.A. Willey. Cassier's magazine. v.37.
p.662-683. April 1910. An illustrated account of work of the
United States reclamation service.
- Irrigation and its relation to state weather service work. George N.
Salisbury. U.S. Department of agriculture. Weather bureau.
Bulletin no.14. Washington, D.C., 1894. p.24-26.
- Irrigation and soil fertility. E.O. Larson. Irrigation age. v.33.
p.110. June 1918.
- Irrigation and the American frontier. E.E. Sparks. Chautauquan.
v.35. p.568-572. September 1902.
- Irrigation and water-supply; a practical treatise on water-meadows, sewage
irrigation and warping; the construction of wells, ponds, and reservoirs;
and raising water by machinery for agricultural and domestic purposes.
John Scott. London, C. Lockwood and co., 1883. 149p.
- Irrigation as a civilizer. Gunton's magazine. v.15. p.279.
October 1898. Extracts from a paper by F.W. Blackmar, basing his
plea upon social considerations, with discussion of the views presented.
- Irrigation as a means of preparedness for defense. J.M. Hess.
Irrigation age. v.31. p.183-184. October 1916.
- Irrigation blamed for the weather. Literary digest. v.80.
p.62-63. January 5, 1924.

- Irrigation by cheap modern methods; double the crops, water will do it.
Philadelphia, Johnson and Stokes, 1898. 62p.
- Irrigation development. History, customs, laws and administrative systems
relating to irrigation, water-courses, and water in France; Italy,
and Spain. William Hammond Hall. Sacramento, James J. Ayers,
supt. state printing, 1886. 2v.
- Irrigation developments in the United States. F.H. Newell. Engineering
record. v. 64. p.711-715. December 16, 1911. A review of
the work as a whole, indicating the method of development.
- Irrigation, drainage and alkali. E.W. Hilgard. California.
Agricultural experiment station. Bulletin no.53. Berkeley,
Cal., 1886. 2p.
- Irrigation engineering; instruction paper. Alfred E. Phillips.
Chicago, Ill., American school of correspondence, 1908. 78p.
- Irrigation engineering. Arthur Powell Davis and Herbert M. Wilson.
New York, John Wiley & sons, inc., 1919. 640p.
- Irrigation engineering. Herbert M. Wilson. 6th edition. New
York, John Wiley & sons, inc., 1909. 625p.
- Irrigation et assainissement des terres. Traite de l'emploi des
eaux en agriculture. Raphael Pareto. Paris, Roret, 1851
4 v. in 18.
- L' irrigation et le chaulage dans leur rapports avec les engrais
azotes. J. Galland. Adraitique, Mai 1928. Berlin, Impr.
O. Elsner, 1928. 37p.
- Irrigation experience; with discussion. A.C. Dixon. Montana
horticultural society. Report, 1920. Missoula, Mont., 1920.
p.90-96.
- Irrigation experiments on apple-spot diseases. Charles Brooks and
D.F. Fisher. U.S. Department of agriculture. Journal of
agricultural research. v.12. p.109-138. January 21, 1918.
- Irrigation farming; a handbook for the proper application of water
in the production of crops. Lucius M. Wilcox. New York,
Orange Judd co., 1902. 494p.
- Irrigation for the farm. A.E. Gipson. Denver, Colo., Republican
publishing co., 1889. 58p.
- Irrigation for the farm, garden and orchard. Henry Stewart. New
York, O. Judd co., 1890. 276p.

- Irrigation for the garden and greenhouse. L.R. Taft. U.S. Department of agriculture. Yearbook, 1895. Washington, D.C. 1896. p.233-246.
- Irrigation guide. A concise treatise on irrigation. Designed for the practical farmer, who is convinced of the advantages of irrigation, but does not know how to practice it. Livingston, Mont., 1895. 19p.
- Irrigation in field and garden. E.J. Wickson. U.S. Department of agriculture. Farmers' bulletin no.138. Washington, D.C. 1901. 40p.
- Irrigation in the east. Herbert Randolph Cox. Southern planter. v.75. p.531-532. May 1913.
- Irrigation in various phases presented in papers before members of Lemon men's club. California cultivator. v.9. p.302-303. June 1924.
- Irrigation in various states and colonies. G.A.R. Borghesani. International review of the science and practice of agriculture. v.8. p.1220-1222. September 1917.
- Irrigation institutions; a discussion of the economic and legal questions created by the growth of irrigated agriculture in the west. Elwood Mead. New York, Macmillan co., 1903. 392p.
- Irrigation lessons from the old world. Sir William Wilcocks. Canadian engineer. v.23. p.545-546. October 3, 1912.
- Irrigation made city drainage system necessary. H.S. Kleinschmidt. Engineering news record. v.80. p.1173-1174. June 20, 1918.
- Irrigation management; the operation, maintenance and betterment of works for bringing water to agricultural lands. Frederick Haynes Newell. New York, D. Appleton and company, 1916. 306p.
- Irrigation means more fertilizer sales and real success for the small farmer. P. Warren. Commercial fertilizer. v.48. p.16. March 1934.
- Irrigation of arid lands. J.J. Miller. Yale scientific monthly. v. 3. p.42-48. November 1896. Deals with the artificial means of making arid lands profitable.
- Irrigation of garden crops. B.D. Halsted and J.A. Kelsoy. New Jersey. Agricultural experiment station. Bulletin no.115. New Brunswick, N.J., 1895. 16p.
- Irrigation of light gravelly soils. C.J. Booth. California cultivator. v.5. p.314. August 1920.

Irrigation of medium loam soils. J.D. Culbertson. California
cultivator. v.5. p.331. August 1920.

Irrigation of weeds and other noncrop plants costly and unprofitable.
O.V.P. Stout. U.S. Department of agriculture. Yearbook, 1934.
Washington, D.C., 1934. p.250-253.

Irrigation often injurious. R. Schmidt. California cultivator.
v.73. p.403. October 26, 1929.

Irrigation on the poultry ranch. C. Weeks. American poultry
journal. v.49. p.488. April 1918.

Irrigation plan. R.W. DeBaun. Rural New Yorker. v.79. p.87.
January 17, 1920.

Irrigation pocket book; or, Facts, figures, and formulae, for irriga-
tion engineers, being a series of notes on miscellaneous subjects
connected with irrigation. Robert Burton Buckley. 2d edition.
New York, Spon & Chamberlain, 1913. 483p.

Irrigation practice and engineering. B.A. Etcheverry. 1st edition.
New York, McGraw-Hill book company, inc., 1915-16. 3v.

2d edition.

New York, McGraw-Hill book company, inc., 1933. v.1.

Book presents essential features of good practice in handling and
use of water on farm; physical properties of soils, water require-
ments of irrigated farms, preparation of land and methods of irri-
gation, farm distribution and small pumping plants discussed.

Irrigation principles and practices. O.W. Israelsen. New York,
John Wiley & sons, 1932. 422p. Principles of agriculture
under irrigation; modern methods and practices; conveyance and use
of irrigation water, properties of soils and behavior of water in
them; efficient application of irrigation to various crops.

Irrigation problem. M.M. Estee. Sacramento, Cal., 1874. 24p.
Annual address delivered before the State agricultural society of
California at Sacramento, September 23, 1874.

Irrigation problems. Outlook. v.75. p.181-183. September
19, 1903.

Irrigation problems discussed by A.S.C.E. Engineering news record.
v.101. p.553-554. October 11, 1928.

Irrigation studies. Elwood Mead. Denver, 1900. 32p.

Irrigation system. E. du Toit. Farming in South Africa. v.7.
p.293-294. October 1932.

- Irrigation under the provisions of the Carey act. G. Ervin. U.S. Department of agriculture. Office of the secretary. Circular no.124. Washington, D.C., 1919. 14p.
- Irrigation vs over irrigation. M.H. Kimball. California cultivator. v.81. p.516. October 13, 1934.
- Irrigation will help a garden. C.C. Clough. Garden magazine. v.17. p.50. February 1913.
- Irrigation with surface and subterranean waters and land drainage with special reference to the geological development and utilization of artesian and sub-artesian supplies. W. Gibbons Cox. Sydney, Angus and Robertson, 1906. 297p.
- Irrigation works. Compiled by Major J.G. Medley. Roorkee, Printed at the Thomason civil engineering college press, 1863. 93p.
- Irrigation works, the "Vernon Harcourt" lectures of 1910. Sir Robert Hanbury Brown. London, Constable & company, 1910. 34p.
- Irrigationist's point of view. E. Flower. Arena. v.28. p.618-625. December 1902.
- Les irrigations. Th. Lebens. Annales de la science agronomique francais et etrangere. v.1. 1896. p.243-263.
- Les irrigations. Antoine Ronna. Paris, Firmin-Didot et cie, 1889-90. 3v.
- Irrigations, engrais liquides et ameliorations foncieres permanentes. J.A. Barral. Paris, Librairie agricole de la maison rustique, 1862. 782p.
- Irrigations et drainages; l'eau dans les ameliorations agricoles. E. Risler and G. Wery. 3d edition. Paris, J.B. Bailliere et fils, 1916. 566p.
- Kunstliche bewasserung in den warmeren erdstreichen und ihre anwendbarkeit in Deutsch-Ostafrika. Ein beitrag zur kolonisationslehre. Dr. Karl Kaerger. Berlin, Gergonne et cie, 1893. 183p.
- Land drainage, embankment and irrigation: their practical application, cost, probable profits and the proper season for such undertakings. James Donald. New edition, revised. London, W.S. Orr and co., 1852. 156p.
- Literarischer entwurf einer weltgarten-bau-systems und die bis ende 1850 geschichtlich gesammelten unverholenen schriftlichen urtheile no.1-69, uber dessen urschrift von 1848, nebst beilagen A-G. J.H. Deseniss. Hamburg, Druck von C. Kayser, 1863. 186,64,120,96,48p.

- Mah's job. F. A. Utting. Country gentleman. v.88. p.45.
January 13, 1923.
- Manual of irrigation engineering. Herbert M. Wilson. 2d edition.
New York, J. Wiley & sons, 1897. 538p.
- Manuel de l'irrigateur. Felix Villeroy et Adam Muller... suivi du code
des irrigations. Jean Louis Henri Bertin. Paris, Dusacq, 1850. 380p.
- Meliorationen (bodenver-besserungen) H. Knauer. Strelitz in Mecklen-
burg, M. Hittenkofer, 1912. 183p.
- Menance of the arid lands. Address before the Farmers' national congress
at Macon, Ga., October 9, 1902. Gilbert M. Tucker. New York,
DeLaval separato co., 1902. 14p.
- Millions for moisture. C. J. Blanchard. National geographic magazine.
v.18. p.217-243. April 1907. An illustrated account
of the work of the United States reclamation service.
- Miracle of irrigation. D. A. Willey. New England magazine. n.s., v.27.
p:586-600. January 1903.
- Mistakes of farmers in irrigation work. Irrigation age. v.31.
p.41. January 1916.
- Modern ideas on irrigation. H. Scougall. Salt Lake city, 1891. 20p.
- More water versus more manure. W. M. Mertz. California cultivator. v.5.
p.290. July 1920.
- National irrigation and flood control. Arthur P. Davis. Engineering Record.
v.58. p.554-555. November 14, 1908. Outlines the work of
the Reclamation service, discussing results thus far.
- Needs and provisions for irrigation. Independent. v.53. p.1999-
2001. August 22, 1901.
- Neue theorie der bodenent-wasserung. F. Merl. Ansbach, 1890. 70p.
- New agriculture; or, The waters led captive. A. N. Cole. New York, The
American angler, 1885. 223p.
- New agriculture. Showing how the productive capacity of the earth is to
be increased ten fold ... through the judicious application of water.
Thos. R. Lowe. San Francisco, 1877. 60p.
- New farmer and his new water-supply. J. R. Smith. Century magazine.
v.93. p.273-279. December 1916.
- New hope for the west. Progress in the irrigation and forest reserve
movements. Gifford Pinchot. Century magazine. v.68. p.309-
313. June 1904.

- New idea in irrigation projects. R. Newman. Pacific rural press.
v. 107. p.479. April 5, 1924.
- New irrigation idea. A. Presser. California cultivator. v.70.
p.516. May 5, 1928.
- New national policy. E.A. Hitchcock. Independent. v.54. p.71-
73. January 9, 1902.
- New uses for an irrigation system. R.W. DeBaun. Rural New Yorker.
v.76. p.787. June 16, 1917.
- Notes on irrigation, roads, and buildings and on the water supply of
towns. William Lumisden Strange..... London, G. Routledge
and sons, ltd., 1920. 849p.
- Notes on irrigation practice. N.E. Edlefsen. An Arbor, Mich.,
Edwards bros., 1931. 248p.
- Notes on irrigation works; a course of lectures delivered at Oxford
under the auspices of the Common university fund. N.F. Mackenzie.
London, Constable and co., ltd., 1910. 111p.
- Other fellow's always wrong. L.H. Storgaard. Pacific rural press.
v.111. p.400. March 27, 1926.
- Our arid Eldorado. A. Jacobsen. Gunton's magazine. v.24.
p.231-236. March 1903.
- Our national irrigation problem. Harpers weekly. v.48. p.1164.
July 30, 1904.
- Our rapidly growing irrigation areas. Scientific american. v.82.
p.131. March 3, 1900.
- Outline of matter, and advance sheets of the report on the legislative,
administrative, technical, and practical problems of irrigation,
in course of preparation and publication. Wm. Ham. Hall, state
engineer. Sacramento, J.J. Ayres, supt. state printing, 1884.
304p.
- Pioneer irrigation; a manual of information for farmers in the colonies.
E.O. Mawson..... London, C. Lockwood and son, 1904. 260p.
- Practical design of irrigation works. W.G. Bligh. New York,
D. Van Nostrand company, 1910. 449p.
- Practical information for beginners in irrigation. S. Fortier. U.S.
Department of agriculture. Farmers' bulletin no.263.
Washington, D.C., 1906. 40p.

- Practical information for beginners in irrigation. S. Fortier.
U.S. Department of agriculture. Farmers' bulletin no. 864.
Washington, D.C., 1927. 37p.
- Practical irrigation. C.T. Johnston and J.D. Stannard. U.S. Department of agriculture. Yearbook, 1901. Washington, D.C., 1901.
p.491-512. Separate no. 201.
- Practical irrigation, its value and cost; with tables of comparative cost, relative soil production, reservoir dimensions and capacities and other data of value to the practical farmer. Aug. J. Bowie, jr.
New York, McGraw publishing co., 1908. 232p.
- Practical irrigator and drainer. George Stephens. Edinburgh, W. Blackwood, 1834. 195p.
- Practical suggestions on irrigation and drainage. D.H. Anderson.
Irrigation age. v.33. p.17-20, 45-49, 82-85, 113-116, 149-152, 192-193, 210-211. March - July, September - November 1918.
- Practice of irrigation engineering, a manual for beginners. J.C. Cleghorn. Engineering news record. v.94. p.706.
April 23, 1925.
- Prairies et plantes fourragères. Edmond Vianne. Paris, J. Rothschild, 1870. 424p.
- Precipitation and irrigation as factors in the distribution of the Mexican bean beetle *epilachna corrupta* muls. H.L. Sweetman.
Ecology. v.10. p.228-244. April 1929.
- Present outlook for irrigation farming. Carl S. Scofield. U.S. Department of agriculture. Yearbook, 1911. Washington, D.C. 1912. p.371-382.
- Present stage of irrigation development and a forecast of the future. Samuel Fortier. Engineering and contracting. v.36. p.645-646.
December 13, 1911. Address before the National irrigation congress on the importance of irrigation to the western states, improvements in practice.
- Primer of irrigation. D.H. Anderson. Chicago, Ill., D.H. Anderson publishing co., 1905. 257p.
- Primitive irrigation methods still compete with modern machinery. Scientific american. v.137. p.28-29. July 1927.
- Principes généraux et pratique de l'irrigation. Traduction et adaptation d' études publiées par le Ministère de l'agriculture des Etats-Unis et l' Université de Californie. F. Ritter et R. Peschaud, conseillers agricoles à la Direction générale de l'agriculture. Tunis, 1932. 95p.

- Principles of irrigation engineering, arid lands, water supply, storage works, dams, canals, water rights and products. Frederick Haynes Newell and Daniel William Murphy. New York, McGraw-Hill book co., 1913. 293p.
- Principles of irrigation engineering, with special reference to South Africa, based on a course of lectures delivered at the University of Cape Town. Francis Edgar Kanthack. New York, Longmans, Green & company, 1924. 299p.
- Principles of irrigation practice. John A. Widtsoe. New York, Macmillan company, 1914. 496p.
- Problems of irrigation. J. Wilson. Independent. v.55. p.2915-2919. December 10, 1903.
- Progress in the irrigation and forest reserve movements. G. Pinchot. Century magazine. v.68. p.309-313. June 1904.
- Progress of irrigation. Engineering and industrial management. v.7. p.432-433. May 18, 1922.
- Progress of irrigation. Literary digest. v.53. p.1653-1654. December 23, 1916.
- Los proyectos de riego. H.B. Muckleston. Sugar. v.24. p.639-640. v.25. p.110-111, 165-166. November 1922, February - March 1923.
- Public land problem and irrigation. Nation. v.77. p.241. September 1924.
- Rain when you want it. W.C. McCollom. Independent. v.94. p.366-367. June 1, 1918.
- Reading course of instruction in irrigation practice. H.A. Wadsworth. Hawaii. University. Agricultural extension service. 1929. 117p.
- Recent progress in irrigation. F.H. Newell. National advocate. v.1. p. 4-6. December 1897. Read at Irrigation congress, at Lincoln, Neb., Recent development has been along the line of increase of area cultivated. Very few large systems have been constructed. The small works have usually been successful. Discusses why large corporate enterprisos often fail.
- Recent trip to Italy, Egypt, southern France and Spain. Interesting facts and personal experiences. Elmer L. Corthell. U.S. Army. Professional memoirs. v.7. Washington, D.C., 1915. p.253-306.

- Regardio de papas. S. Carrillo Alvarez. Revista de agricultura.
v.18. p.95-97. January 1936.
- Relation of irrigation to dry farming. Elwood Mead. U.S. Department
of agriculture. Yearbook, 1905. Washington, D.C., 1906.
p.423-438. Separate no.393.
- Report of committee on irrigation. H.E. Murdock and others. American
society of agricultural engineers. Transactions. v.13,
p.169-170. 1920.
- Report of the state engineer of California, on irrigation and the
and the irrigation question. Wm. Ham. Hall, state engineer.
Sacramento, Cal., State office, 1886-1888. 2v.
- Report on irrigation and drainage investigations during 1905-1906.
W.W. McLaughlin. Utah. Agricultural experiment station.
Bulletin no.99. Logan, Utah, 1906. 49-126p.
- Results of national irrigation. A.P. Davis. American fertilizer.
v.51. p.93+ December 20, 1919.
- Riddle of Mars; how the planet may be saving itself from death by
irrigation. Scientific american supplement. v.78. p.106-107.
August 15, 1914.
- Riego de las tierras de cultivo. M. Rodriguez Escribens. La Hacienda.
v.32. p.20-21. June 1937.
- Riego superficial de las tierras labrantias. F.W. Stanley. La Hacienda.
v.21. p.227-231, 276-280. August - September 1926.
- Root behavior and crop yield under irrigation. F.C. Jean and J.E.
Weaver. Washington, D.C., Carnegie institution, 1924. 66p.
Publication no.357.
- Save millions on irrigated land. H.J. Fitzgerald. Popular science.
v.124. p.34-35+ February 1934.
- Seguro de las cosechas a base de irrigacion. La Hacienda. v.30.
p.420-421. December 1935.
- Side issues of scientific irrigation. D.J. Whitney. Pacific rural
press. v.99. p.266. February 14, 1920.
- Sociological aspect of the irrigation problem. Scientific american.
v.88. p.23. January 10, 1903.
- Solution of the water problem. D.J. Whitney. Pacific rural press.
v.99. p.484. March 20, 1920.

Some financial, agricultural and engineering aspects of irrigation.
C.K. Fox. Municipal engineering. v.56. p.30-31.
January 1919.

Some fundamentals of irrigation. R.W. Hodgson. California cultivator.
v.69. p.101, 125. July 30 - August 6, 1927.

Some notes on the storage and regulation of water for irrigation
purposes. T. Whitchurch Seaver. Royal society of New South
Wales. Journal and proceedings. v.39. p.43-62. 1905.

Some personal slants on irrigation. L.H. Storgaard. Pacific
rural press. v.109. p.388. March 28, 1925.

Some practical points in irrigation engineering. R.C. Gemmell.
Technic n.s. no.10. p.62-71. 1897. Hints to the young engi-
neer regarding irrigation surveys and construction.

State engineer and his relation to irrigation. R.P. Teele. U.S.
Department of agriculture. Office of experiment stations. Bulletin
no.168. Washington, D.C., 1906. 99p.

Status and progress in the art of irrigation engineering. S.T. Harding.
American society of civil engineers. Proceedings. v.55. p.705-
709. March 1929. Discussion of agricultural phases of irriga-
tion; studies of water resources, forms of organization and financing;
administration of water fights; structures, measurement of water,
ground-water, drainage.

Status of the irrigation idea. Harpers weekly. v.46. p.1174-1175,
1192. August 30, 1902.

Steppes, deserts and alkali lands. E.W. Hilgard. Popular science
magazine. v.48. p.602-616. March 1896. Explanation is
herein attempted, of the singular fact that the countries which
have harbored most of the ancient civilization are regions of
deficient rainfall and compulsory irrigation; and an examination
of the effect of deficient rainfall upon the character of soils in
arid regions.

Steps toward project control. F.D. Pyle. Irrigation age. v.32.
p.166-168. September 1917.

Storage reservoirs on Stony Creek, California. Burt Cole. U.S.
Geological survey. Water supply and irrigation paper no.86.
Washington, D.C., 1903. 62p.

Story of irrigation. J.A. Kirk. Agricultural journal of British
Columbia. v.9. p.28-30. April 1924.

Success on irrigation projects. John A. Widtsoe. New York, John
Wiley and sons, inc., 1928. 153p.

- Successful irrigation. Charles Edward Hoke. Country gentleman.
v.77. p.20-21. March 30, 1912.
- Sui serbatoi artificiali di acqua a beneficio dell' irrigazione.
Alessandro Arnaud. Saluzzo, Tipografia Rovera e Campagno, 1893.
31p.
- Taking the guesswork out of irrigation and fertilization. L. Sharp.
California citrograph. v.11. p.384+ August 1926.
- Ten years of government irrigation work. Scientific american
supplement. v.75. p.142-143. March 1, 1913.
- Ten years of government irrigation work. Engineering record. v.67.
p.128-130. February 1, 1913. Review of the activities of
the U.S. Reclamation service since the passage of the Newlands act.
- Timely tips on how to irrigate. M.R. Kulp. Better fruit. v.31.
p.14. August 1936.
- Traite pratique de l'irrigation des prairies. J. Keelhoff. 2d edition.
Louvain and Paris, 1888. 2v.
- Treatise on watering meadows. Wherein are shewn some of the many
advantages arising from that mode of practice, particularly on
coarse, boggy, or barron lands; and the method of performing the
work. Also, remarks on a late pamphlet upon that subject.
George Boswell. 3d edition. London, J. Debrett, 1792. 134p.
- Triumph of national irrigation. W.E. Smythe. Review of reviews.
v.30. p.49-51. July 1904.
- Turning out crops on schedule time. Scientific american v.114.
p.547. May 27, 1916.
- Typical irrigated community. J. Blothen. World's work. v.4.
p.2491-2501. September 1902.
- Unprecedentedly good outlook for irrigation in 1918. F.W. Park.
Municipal engineer. v.54. p.29-32. January 1918. Increase
in production due to irrigation, and the possibilities.
- Use of supplemental water. J.C. Russel. Agricultural engineering.
v.11. p.95-97. March 1930. Philosophy, theory, and practice
of supplemental irrigation.
- Use of water in irrigation. Samuel Fortier. 3d edition. New York
McGraw-Hill book co., inc., 1926. 420p.
- Use of water in irrigation. Report of investigations made in 1899
under the supervision of Elwood Mead....and C.T. Johnston, assistant.
Including report by special agents and observers W.M. Reed and others.

- U.S. Office of experiment stations. Washington, D.C., Govt. printing office, 1900. 253p. U.S. 56th congress. House. Document no.466.
- Use of small water supplies for irrigation. Samuel Fortier. U.S. Department of agriculture. Yearbook, 1907. Washington, D.C., 1908. p.409-424. Separate no.458.
- Use your two eyes (I) more in 1928. Market growers journal. v.41. p.825. November 1, 1927.
- Utilizacion y desperdicio del agua de riego. G.E.P. Smith. La Hacienda. v.22. p.259-263. September 1927.
- Versuche uber ackerbe-wasserung. Bromberg. Kaiser Wilhelms institut fur landwirtschaft. Berlin, 1908. Arbeiten der Deutschen landwirtschafts-gesellschaft. hft. 141.
- With the irrigation farmer. S. Fortier. U.S. Department of agriculture. Yearbook, 1920. Washington, D.C., 1921. p.203-216. Separate no.839.
- Water is king, but watch the joker. W.C. Tesche. Pacific rural press. v.117. p.389. March 23, 1929.
- Water that runs uphill. G.F. Stratton. Country gentleman. v.83. p.5. February 9, 1918.
- Water that talks. M.A. Wilson. Current literature. v.50. p.342. March 1911.
- Water to increase garden efficiency. G.W. Hood. Garden magazine. v.26. p.13-14. August 1917.
- Water vs drying the soil. R.E. Stephenson. California cultivator. v.83. p.484. June 20, 1936.
- Wet the roots - never mind the trunks. L.H. Storgaard. Pacific rural press. v.107. p.373. March 15, 1924.
- What is the matter with irrigation? Engineering news. v.69. p.1237-1240. June 12, 1913. Editorial discussion of why irrigation is unprofitable.
- What scientific irrigation can do. D.J. Whitney. Pacific rural press. v.99. p.157. January 31, 1920.
- What the Department of agriculture is doing for irrigation. Elwood Mead. U.S. Department of agriculture. Office of experiment station. Circular no.48. Washington, D.C., 1902. 4p.

Where oil and water mix. L.J. Cunniff. Irrigation age. v.31.
p.106. May 1916.

Working data for irrigation engineers. E... Meritz. New York, John
Wiley & sons, inc., 1915. 395p.

ASSOCIATIONS

Anales del primer Congreso de irrigacion y colonizacion del norte,
19 de febrero - 24 de febrero de 1929, Lambayague, Republica de
Peru. Lima, Imprenta Torres Aguirre, 1929. 4v.

Atti. L'irrigazione in Italia dal punto di vista tecnico, economico,
legislativo. Congresso nazionale per l'irrigazione. Rome, Unione
delle Provincie d'Italia, 1925. 324p. Proceedings. Irrigation
in Italy from the technical, economic, and legislative point of
view. An organization for its greater development.

Atti del 1 Congresso nazionale per l'irrigazione tenuto in Milano dal
19 al 21 aprile 1925, dall' Unione delle provincie d'Italia e dalla
deputazione provinciale di Milano. L'irrigazione in Italia dal
punto di vista tecnico, economico, legislativo... Rome, Edito a
cura dell' Unione delle provincie d'Italia, 1925. 325p.

Appendice. Relazioni
presentate al congresso dagli enti della Sardegna. Milano, S.T.I.G.E.
1926. 116p.

Conference of agricultural, live stock, irrigation and engineering
societies of Idaho. Resolutions passed by the joint conference
held at Idaho Falls, Jan. 14-19. Irrigation age. v.33. p.26.
March 1918.

Congres de l'eau en Crau. Utilisation des nappes d'eau souterraines.
Marseille, 1930... Comptes rendus des seances tenues a la prefecture
de Marseille (Salle du conseil general) et aux salons massilia et
excursion des congressistes en Crau les 29, 30 juin et 1er juillet.
Paris, Service agricole de la Compagnie P.L.M., 1930. 346p.

1. congreso nacional de riegos celebrado en Zaragoza en los dias 2 al
6 de Octubre de 1913 ... Zaragoza, Tipografia de G.
Casanal, 1914. 2v.

Government emphasizes need of Water users association. Irrigation age.
v.31. p.101. May 1916.

Institute of irrigation agriculture: fourth water users' conference.
February 25, 26, 27, 1935. American farm bureau federation. Los
Angeles, Cal., 1935. 99p. mimeographed.

Irrigation congress and its problems. Nation. v.79. p.456.
December 8, 1904.

Modelli di statuto per consorzi irrigui. Federazioni nazionale delle
irrigazioni. Milano, S.T.I.G.E., 1928. 109p.

Official proceedings. 1st - 21st. International irrigation congress.
Salt Lake City, Utah, 1891 - 1915.

Proceedings. 1932-date. National reclamation association.
Salt Lake City, Utah, 1932.

Proceedings. 1st -date. Nebraska state irrigation association.
Scottsbluff, Neb., 1891-date.

Proceedings. 2d-12th. 1914-1924. Washington irrigation institute.
North Yakima, Wash., 1915-1925.

Proceedings of the first State irrigation congress, held at Bismarck,
N.D., October 20th and 21st, 1903. Irrigation congress of North
Dakota. Bismarck, N.D., 1903. 94p.

Proceedings of the third irrigation congress held at Bismarck, North
Dakota, January 25-26, 1905. Bismarck, N.D., 1905. 85p.

Proceedings of the joint conference of the irrigation, engineering and
agricultural societies of Idaho. Idaho irrigation congress. 1st-
2d. 1918-1919. Twin Falls, 1919.

Report of the proceedings of the annual convention of the Western
Canada irrigation association. 1st-15th. 1907-1921. Ottawa,
Government printing bureau, 1908-1921.

Resolutions adopted by the National irrigation congress, December 9,
1911. Engineering news. v.66. p.748-749. December 21, 1911.

Steps toward project control. F.D. Pyle. Irrigation age. v.32.
p.166-168. September 1917.

32 water users' associations form new organization. Irrigation age.
v.31. p.133. July 1916.

Transactions. American society of irrigation engineers. Denver,
Col., 1895 - date.

Uncle Sam's irrigation school. Irrigation age. v.31. p.107.
May 1916.

Water users' association as a practical form of organization for the
federal water users. O.E. Farnham. Irrigation age. v.32.
p.133-134. July 1917.

BIBLIOGRAPHY.

- Bibliography on flood control. Prepared in the Division of bibliography, Library of Congress. December 10, 1927. Washington, D. C., U. S. Government printing office, 1928. 83p. U. S. Congress. House. Committee document no.4.
- Bibliography on irrigation. American society of civil engineering. Proceedings, v.54. p.114-115. March 1928.
- Bibliography on subjects selected for research by the special committees on irrigation hydraulics. American society of civil engineers. Proceedings, v.51. p.147-160. March 1925.
- Catalogue of books in the library on Central board of irrigation, Simla. (Up to 31st December 1933.) Simla, India, 1934. 129p. India central board of irrigation. Publication no.3.
-
- Supplement ... (for the year 1934.)
Simla, India, 1935. 49p. India central board of irrigation. Publication no.3, supplement no.1.
- Digests of technical notes, 1931. Also Minutes of proceedings part II (Technical) at the annual board meeting 1931. Simla, India, 1931. 36p. India central board of irrigation. Publication no.1.
- Digests of technical notes, 1932. Also Minutes of proceedings of the third annual meeting, 1932. Simla, India, 1932. 10,33p. India central board of irrigation. Publication no.2.
- Drainage publications and irrigation publications of the Bureau of agricultural engineering. Washington, D. C., 1937. 4p. mimeographed.
- Irrigation, drainage and water power; a list of publications relating to above subjects for sale by superintendent of documents, Washington, D. C. Washington, D. C., Government printing office, 1937. 28p.
- Irrigation hydraulics; final report of special committee. American society of civil engineers. Transactions. v.99. p.1375-1382. 1934.
- Irrigation information. California cultivator. v.63. p.179. February 12, 1927.
- Irrigation literature. U. S. Geological survey. Washington, D. C., Government printing office, 1892. 345-388p. Excerpt from the 11th annual report of the U. S. Geological survey, 1889-90. pt.II.

List of references to publications relating to irrigation, in the Public library of New South Wales. Compiled by George Hartwell Gifford. Sydney, W.A. Gullick, government printer, 1913. 32p.

List of references to publications relating to irrigation and land drainage. Compiled by Ellen A. Hedrick. Washington, D.C., Government printing office, 1902. 181p. U.S. Department of agriculture. Library. Bulletin no.41.

Organization, work, and publications of irrigation investigations. U.S. Department of agriculture. Office of experiment stations. Washington, D.C., Government printing office, 1909. 12p.

Selected list of references relating to irrigation in California. R. Venable. California. Agricultural experiment station. Bulletin no.260. Berkeley, Cal., 1923. 62p.

CROPS

Annual forage crops under irrigation. J.E. Norton. Montana. Agricultural experiment station. Bulletin no.261. Bozeman, Mont., 1932. 17p.

Crops for new lands on irrigation projects in Washington. H.P. Singleton. Washington. Agricultural experiment station. Popular bulletin no.132. Pullman, Wash., 1925. 22p.

Culture of the banana in Jamaica. Journal of the Jamaica agricultural society. v.37. p.347-350,461-473. July, September 1933.

Effect of fall irrigation on crop yields at Belle Fourche, South Dakota. F.D. Ferrell and Beyer Aune. U.S. Department of agriculture. Department bulletin no.546. Washington, D.C., 1917. 15p.

Effects of irrigation on olive production in Tunisia. R. Mares. International review of the science and practice of agriculture. v.11. p.199-200. February 1920.

Field crops for pump irrigation at Harney branch experiment station, 1920 to 1927. O. Shattuck and R.E. Hutchison. Oregon. Agricultural experiment station. Bulletin no.236. Corvallis, Ore., 1928. 30p.

Growing cannery crops with and without irrigation. C. Robertson. Oregon state horticultural society. Report, 1935. p.46-49. Corvallis, Ore., 1936.

Growing irrigated crops in Harney valley. Obil Shattuck and D.W. Ritchie. Oregon. Agricultural experiment station. Bulletin no.191. Corvallis, Ore., 1922. 24p.

- Irrigation for vegetable crops in Iowa. A.T. Erwin and E.S. Haber.
Iowa. Agricultural experiment station. Bulletin no.308.
Amos, Ia., 1934. 113-143p.
- Irrigation investigations with field crops at Davis, and at Delhi,
California, 1909-1925. S.H. Beckett and M.R. Huberty. California,
Agricultural experiment station. Bulletin no.450. Berkeley,
Cal., 1928. 24p.
- My experiences in irrigating fruits and vegetables. A.M. Strood.
Minnesota horticulturist. v.61. p.43+ March 1933.
- Production of crops and livestock on the Newlands project, 1930 - 1934.
F.B. Hoadley and Cruz Venstrom. Nevada. Agricultural experiment
station. Bulletin no.123. Reno, Nev., 1931. 14p. Bulletin
no.127. Reno, Nev., 1932. 26p. Bulletin no.130. Reno,
Nev., 1933. 7p. Bulletin no.134. Reno, Nev., 1934. 8p.
Bulletin no.138. Reno, Nev., 1935. 9p.
- Sunflowers under irrigation in Montana. I.J. Jensen. Montana.
Agricultural experiment station. Bulletin no.162. Bozeman,
Mont., 1923. 19p.
- Alfalfa, Soybeans, Timothy
- Alfalfa and sweet clover on irrigated farms. R.P. Bean. Washington.
State college. Department of extension. Bulletin no.158.
Pullman, Wash., 1930. 7p.
- Alfalfa culture. Ottawa, Government printing bureau, 1914. 26p.
Canada. Department of the interior. Irrigation branch. Bulletin
no.2.
- Alfalfa irrigation in California. J.B. Brown. California cultivator.
v.76. p.117. January 31, 1931.
- Alfalfa irrigation layout. W.C. Tescho. Pacific rural press. v.113.
p.570. April 23, 1927.
- Alfalfa production under irrigation in western Texas. J.J. Bayles.
Texas. Agricultural experiment station. Bulletin no.472.
College Station, Texas, 1932. 28p.
- Economical irrigation of alfalfa in Sacramento valley. S.H. Beckett
and R.D. Robertson. California. Agricultural experiment station.
Bulletin no.280. Berkeley, Cal., 1917. 273-294p.
- Efficient use of water affects alfalfa costs. F.H. Ernst. California
cultivator. v.79. p.69+ July 30, 1932.

- Experiments with legume crops under irrigation. J.S. Welch. Idaho. Agricultural experiment station. Bulletin no.94. Boise, Idaho, 1917. 14p.
- Government experimental farm, Kybybolite; fodder crops under irrigation. Journal of the Department of agriculture of South Australia. v.27. p.766-774. March 1924.
- Influence of irrigation head and length of run on use of water for alfalfa. D.W. Bloodgood and A.S. Curry. New Mexico. Agricultural experiment station. State College, N.M., 1931. 10p.
- Intensive cultivation of alfalfa. R.H. Forbes. Arizona. Agricultural experiment station. Timely hints no.93. Tucson, Ariz., 1917. 8p.
- Investigations of the economical duty of water for alfalfa in Sacramento valley, California, 1910-1915. Frank Adams and others. Sacramento, Cal., California state printing office, 1917. 78p. California. Department of engineering. Bulletin no.3.
- Irrigated alfalfa in Montana. J.E. Norton. Montana. Agricultural experiment station. Bulletin no.245. Bozeman, Mont., 1931. 27p.
- Irrigated alfalfa in Washington. H.P. Singleton. Washington. Agricultural experiment station. Bulletin no.209. Pullman, Wash., 1926. 15p.
- Irrigation of alfalfa. Samuel Fortier. U.S. Department of agriculture. Farmers' bulletin no.373. Washington, D.C., 1909. 48p.
- Irrigation of alfalfa. S. Fortier. U.S. Department of agriculture. Farmers' bulletin no.865. Washington, D.C., 1925. 36p.
- Irrigation of alfalfa. F.S. Harris and D.W. Pittman. Utah. Agricultural experiment station. Bulletin no.180. Logan, Utah, 1921. 30p.
- Irrigation of alfalfa. W.L. Powers and W.W. Johnston. Oregon. Agricultural experiment station. Bulletin no.189. Corvallis, Ore., 1922. 36p.
- Irrigation of alfalfa in Imperial Valley. W.E. Packard. California. Agricultural experiment station. Bulletin no.284. Berkeley, Cal., 1917. 67-84p.
- Irrigation of alfalfa in Nevada. C.S. Knight. Nevada. Agricultural experiment station. Bulletin no.93. Reno, Nev., 1918. 18p.
- Irrigation practices in growing alfalfa. S. Fortier. U.S. Department of agriculture. Farmers' bulletin no.1630. Washington, D.C., 1930. 26p.

- Preliminary report to the Alfalfa irrigation land co. on alfalfa by pump irrigation in western Kansas. H.V. Hinckley. Topeka, Kan., The Hall and O'Donald litho. co., 1895. 21p.
- Producing lucerne hay under irrigation. F.G. Chomley and F.A. Chaffey. New South Wales. Department of agriculture. Farmers' bulletin no.143. Sydney, N.S.W., 1921. 22p.
- Soybeans under irrigation in Colorado. D.W. Robertson and others. Colorado. Agricultural experiment station. Bulletin no.392. Fort Collins, Colo., 1932. 24p.
- Timothy production on irrigated land in the northwestern states. M.W. Evans. U.S. Department of agriculture. Farmers' bulletin no.502. Washington, D.C., 1912. 32p.
- Water requirements of farm crops; application of results to irrigated lucerne. A.E.V. Richardson. Journal of the Department of agriculture of Victoria. v.21. p.457-481. August 1923.
- Watering lucerne. L.C. Bartels. Journal of the Department of agriculture of Victoria. v.25. p.647-651. November 1927.

Cereals

- Cereal investigations on the Belle Fourche experiment farm. Cecil Salmon. U.S. Department of agriculture. Department bulletin no.297. Washington, D.C., 1915. 43p.
- Date and rate-of-seeding tests with spring grains under irrigation. A. Atkinson. Montana. Agricultural experiment station. Bulletin no.120. Bozeman, Mont., 1917. 107-117p.
- Effect of time of irrigation on kernel development of barley. Harry V. Harlan and Stephen Anthony. U.S. Department of agriculture. Journal of agricultural research. v.21. p.29-45. April 1, 1921.
- Experiments with cereals on the Belle Fourche experiment farm, Newell, S. Dak. John H. Martin. U.S. Department of agriculture. Department bulletin no.1039. Washington, D.C., 1922. 72p.
- Experiments with small grains under irrigation. J.S. Welch. Idaho. Agricultural experiment station. Bulletin no.93. Moscow, Idaho, 1917. 24p.
- Growing corn on irrigated land. Dan Hansen. Montana. Agricultural experiment station. Bulletin no.193. Bozeman, Mont., 1926. 16p.
- Growing irrigated grain in southern Idaho. L.C. Aicher. U.S. Department of agriculture. Farmers' bulletin no.1103. Washington, D.C. 1920. 28p.

La influencia del riego sobre la composicion del grano de maiz. Revista de agricultura. v.14. p.63-64. August 1933.

Irrigation and manuring studies: II. Effect of varying quantities of irrigation water and manure on the growth and yield of corn, 1911-1916. F.S. Harris and D.W. Pittman. Utah. Agricultural experiment station. Bulletin no.154. Logan, Utah, 1917. 29p.

Irrigation of barley. F.S. Harris and D.W. Pittman. Utah. Agricultural experiment station. Bulletin no.178. Logan, Utah, 1922. 19p.

Irrigation of barley. H.T. Nowell. Wyoming. Agricultural experiment station. Bulletin no.77. Laramie, Wyo., 1908. 20p.

Irrigation of grain. W.W. McLaughlin. U.S. Department of agriculture. Farmers' bulletin no.399. Washington, D.C., 1910. 23p.

Irrigation of grain. W.W. McLaughlin. U.S. Department of agriculture. Farmers bulletin no.863. Washington, D.C., 1917. 22p.

Irrigation of oats. F.S. Harris and D.W. Pitman. Utah. Agricultural experiment station. Bulletin no.167. Logan, Utah, 1919. 20p.

Irrigation of small grain. W.W. McLaughlin. U.S. Department of agriculture. Farmers' bulletin no.1556. Washington, D.C., 1928. 13p.

Oat and barley varieties under irrigation. J.E. Norton and L. Powers. Montana. Agricultural experiment station. Bulletin no. 266. Bozeman, Mont., 1932. 27p.

Production and utilization of corn grown under irrigation in Washington. H.P. Singleton. Washington. Agricultural experiment station. Bulletin no.278. Pullman, Wash., 1933. 22p.

Production of cereals under irrigation in Washington. H.P. Singleton. Washington. Agricultural experiment station. Bulletin no.240. Pullman, Wash., 1930. 20p.

Relation of precipitation to yield of corn. J.W. Smith. U.S. Department of agriculture. Yearbook, 1903. Washington, D.C., 1904. p.215-224.

Relative water requirement of corn and sorghums. W.C. Miller. Kansas. Agricultural experiment station. Bulletin no.12. Manhattan, Kans., 1923. 34p.

Small grains for irrigated farms in Colorado. W. Kidder. Colorado. Agricultural college. Extension service. Bulletin no.240A. Fort Collins, Colo., 1926. 11p.

Citrus

- Basin making in citrus groves. W. Unkles. Farming in South Africa. v.10. p.343. August 1935.
- Beans and water make fine oranges. R.E. Hodges. Pacific rural press. v.107. p.14. January 5, 1924.
- Citrus, et al., versus the irrigator. G.P. Weldon. Pacific rural press. v.117. p.390. March 23, 1929.
- Citrus irrigation. E.L. Koothen. California cultivator. v.62. p.93. January 26, 1924.
- Citrus irrigation and yields. H.E. Whalberg. California citrograph. v.15. p.255. April 1930.
- Citrus irrigation cafeteria-style. R.E. Hodges. Pacific rural press. v.111. p.406. March 27, 1926.
- Citrus irrigation efficiency - its relation to water conservation. M.B. Rounds. California citrograph. v.15. p.257. April 1930.
- Citrus irrigation methods. M.B. Rounds. Pacific rural press. v.121. p.667. June 20, 1931.
- Citrus irrigation problems. H.J. Wilder. California cultivator. v.76. p.115. January 31, 1931.
- Citrus orchard irrigation problems. W.R. Schoonover. California citrograph. v. 8. p.100. February 1923.
- Cross-transfer of water in mature lemon trees. J.R. Furr and C.A. Taylor. American society ^{for} horticultural science. Proceedings, 1933. Geneva, N.Y., 1934. p.45-51.
- Efficiency in citrus irrigation. Frank M. Eaton. Chula Vista, Cal., San Diego land corporation, 1919. 16p.
- Importance of proper irrigation of citrus lands. H.F. Wahlberg. California citrograph. v.9. p.292. June 1924.
- Irrigating citrus orchards. M.B. Rounds. California citrograph. v.20. p.275+. July 1935.
- Irrigation as frost protection in citrus grove. E.H. Jones. California citrograph. v.9. p.260. May 1924.
- Irrigation development of Rio Grande valley, and its related citrus industry. J.B. Lippincott. California citrograph. v.16. p.418+ July 1931.

-35-

Irrigation efficiency as applied to citrus orchards. W. M. Mertz.
California citrograph. v.11. p.278+ May 1926.

Irrigation investigations in young grapefruit orchards on the Yuma mesa.
G. E. P. Smith and others. Arizona. Agricultural experiment station.
Technical Bulletin no.37. Tucson, Ariz., 1931. 413-591p.

Irrigation of citrus groves. California citrograph. v.7. p.406.
October 1922.

Irrigation of citrus lands. I. G. MacBeth. California citrograph. v.8.
p.192. April 1923.

Irrigation of citrus orchards. W. R. Wood. California cultivator. v.60.
p.367. March 31, 1923.

Irrigation of citrus orchard. W. R. Wood. California cultivator. v.61.
p.21. July 7, 1923.

Irrigation of lemons for optimum vigor without reduced production. T. A.
Lombard. California citrograph. v.21. p.366+ August 1936.

Irrigation of oranges on the west side of the Sacramento river. J. Mills, Jr.
California cultivator. v.58. p.93. January 28, 1922.

Irrigation water requirement studies of citrus and avocado trees in San Diego
county, California, 1926 and 1927. S. H. Beckett and others.
California. Agricultural experiment station. Bulletin no.489.
Berkeley, Cal., 1930. 51p.

Method of alkali control in the citrus orchard. J. A. Dennis. California
citrograph. v.16. p.462+ August 1931.

Mulched-basin system of irrigated citrus culture and its bearing on the
control of mottle leaf. L. J. Briggs and others. U. S. Department
of agriculture. Bulletin no.499. Washington, D. C., 1917. 31p.

Note sur les orangeries et les irrigations de Blidah. Ch. Joly. Paris,
1887. 19p.

Observation in citrus irrigation. D. J. Whitney. California cultivator.
v.83. p.392. May 23, 1936.

Practical application of water in citrus groves. F. Dayboll. California
citrograph. v.16. p.266. April 1931.

Precautionary measures in citrus irrigation. W. H. Williams. California
cultivator. v.80. p.219. April 29, 1933.

Rain-making for the orange grower. R.. Mack. Technical world.
v.17. p.568-569. July 1912.

Relation of the transformation and distribution of soil nitrogen to the
nutrition of citrus plants. I.G. McBeth. U.S. Department of
agriculture. Journal of agricultural research. v.9. p.183-
252. May 14, 1917.

Report on duty of water investigations on citrus cultivation at Gan
Moshe, near Rishon Le Tsiyon during the years 1931-32-33. J.Dawson
Shepherd and others. Jerusalem, Printing and stationery office,
1934. 28p.

Rudiments of citrus fertilization. E.L. Koethen. California cultivator.
v.58. p.64. January 21, 1922.

Soil moisture of citrus groves discussed in practical terms. L.T.
Sharp. California citrograph. v.15. p.255. April 1930.

Some suggestions on citrus irrigation. W.R. Schoonover. California
citrograph. v.15. p.257. April 1930.

Special irrigation practice in the citrus orchard. J.A. Dennis.
California citrograph. v.9. p.290. June 1924.

Spring irrigation in the orange groves. P.A. Boncquet. California
cultivator. v.68. p.348. March 19, 1927.

Studies on the irrigation of citrus groves. E.E. Thomas. California.
Agricultural experiment station. Bulletin no.341. Berkeley,
Cal., 1922. 353-370p.

Use of soil moisture and fruit growth records for checking records of
irrigation practices in citrus orchards. C.A. Taylor and J.R. Furr.
U.S. Department of agriculture. Circular no.426. Washington, D.C.,
1937. 24p.

Cotton

Cotton from the Gezira. J. Currie. Agricultural journal of India.
v.18. p.281-286. May 1923.

Cotton growing by irrigation at Glendale. F. Webb. Rhodesia agri-
cultural journal. v.22. p.685-686. September 1925.

Cotton growing in the Gozira. J. Cromarty-Tulloch. Near east.
v.43. p.747-748. September 20, 1934.

Cotton-growing under irrigation. A.N. Shepherd. Agricultural gazette
of New South Wales. v.34. p.727-730. October 1923.

- Cotton growing under irrigation in the southwest. P.L. Edwards.
Overland monthly. n.s., v.69. p.501-504. June 1917.
- Cotton irrigation in California. P.J. Webster. California country-
man. v.8. p.8. February 1922.
- Effect of crazy top disorder on cotton plants and its control by irri-
gation management. Claude Hope and others. U.S. Department of agri-
culture. Technical bulletin no.515. Washington, D.C.,
1936. 44p.
- Effects of plant spacing and irrigation on number of locks in cotton
bolls. A.R. Leding and L.R. Lytton. U.S. Department of agri-
culture. Journal of agricultural research. v.47. p.33-52.
July 1, 1933.
- Field experiments with cotton. R.S. Hawkins. Arizona. Agricultural
experiment station. Bulletin no.135. Tucson, Ariz., 1930.
553-581p.
- Future of cotton-growing in Sind under perennial irrigation. T.F. Main.
Agricultural journal of India. v.19. p.473-484. September
1924.
- Growing cotton under irrigation in the Wichita valley of Texas.
C.H. McDowell. Texas. Agricultural experiment station. Bulletin
no.494. College Station, Tex., 1934. 21p.
- Irrigacion de campos algodonereros. Revista Mexicana de ingenieria y
arquitectura. v.6. p.367-369. July 15, 1928. Irrigation
of cotton fields. Cotton plantation in state of Coahuila, Mexico;
water from 3 wells pumped 24 hours daily for eight months of year;
150 hp. Diesel Ingersoll-Rand compressors operate air lift, with
one man in charge.
- Irrigated cotton areas of America. N.S. Pease. International cotton
bulletin. v.16. p.54-95. October-November 1937.
- Irrigation and cotton growing in Mesopotamia. Engineer. v.129.
p.133-136. February 6, 1920.
- Irrigation and related cultural practices with cotton in the Salt river
valley of Arizona. S.H. Hastings. U.S. Department of agriculture.
Circular no.200. Washington, D.C., 1932. 31p.
- Irrigation of cotton. J.C. Marr and R.G. Homphill. U.S. Department
of agriculture. Technical bulletin no.72. Washington, D.C.,
1928. 37p.

- Irrigation of cotton on the basis of its biological characteristics.
G.S. Zaitzev. Vestnik irrigatziyi. v.7. p.5-9. January 1929. Land director of Turkestan plant selection station discusses general principles and their application to Central Asiatic conditions and concludes that cotton requires under those conditions, 800 mm. of water, including natural rainfall. (In Russian).
- Irrigations au Niger et la culture du cotonnier. Etudes et travaux d'agriculture. Rapport de l'inspecteur general Yves Henry. Prospection agronomique. Station experimentale F. Vuillet. Analyse des terres. H. Lavergne. Paris, E. Larose, 1922. 183p.
- Method for the control of cotton root rot in the irrigated southwest.
C.J. King. U.S. Department of agriculture. Circular no.425. Washington, D.C., 1937. 10p.
- On cotton. Sir William Willcocks. Lecture delivered at the Egyptian institute, Cairo, on December 11th, 1911. Manchester, Palmer, Howe and co., 1912. 15p.
- Outlines of cotton culture in the San Joaquin valley of California.
J.W. Hubbard. U.S. Department of agriculture. Circular no.256. Washington, D.C., 1933. 8p.
- Physiological factors affecting the fruiting of cotton with special reference to boll shedding. R.S. Hawkins and others. Arizona. Agricultural experiment station. Technical bulletin no.46. Tucson, Ariz., 1933. 361-407p.
- Physiology of the cotton plant in Sind with special reference to perennial irrigation. A popular bulletin embodying the results of the work done under the Sind physiological research scheme at Sakrand, financial by the Indian central cotton committee (1927 - 1932). Bombay 1933. 22p.
- Pima Egyptian cotton in irrigated rotations at the Yuma field station, Bard, Calif. S.H. Hastings and E.G. Noble. U.S. Department of agriculture. Technical bulletin no.369. Washington, D.C., 1933. 30p.
- Production du coton en Afrique occidentale francaise. Le programme carde. E. Belime. Paris, Publications du Comite du Niger, 1925. 263p.
- Results of cotton irrigation experiments at Samark and irrigation experiment station during 1926 - 1928. G.E. Kapriyelyantz. Vestnik irrigatziyi. no.4. p.43-78. April 1930. Report on duty-of-water experiments and on methods of irrigation best suited for climatological conditions prevailing in Turkestan; depth of percolation of irrigation water in soil and effect of mulching on conservation of moisture and increasing duty of water. In Russian.

- Results of duty of water experiments at the Akkavak irrigation experiment station. M.F. Pereskokov and O.E. Fatchikhina. Vestnik irrigatziyi. nos. 5 and 6. p.68-79; 69-81. May and June 1929. Detailed report on optimum moisture content for cotton growing, under conditions obtaining in Russian Central Asia; plants were grown in vessels 20 to 40 cm. in diam. and 30 to 100 cm. in height; experiments included chemical and biological studies of soils and determination of wilting coefficient of cotton plants. In Russian.
- Results of irrigation treatments on Acala cotton grown in the Mesilla valley, New Mexico. L.S. Curry. New Mexico. Agricultural experiment station. Bulletin no.220. State College, N.M., 1934. 43p.
- Root development of cotton plants in the San Joaquin valley of California. J.W. Hubbard and F.W. Herbert. U.S. Department of agriculture. Circular no.262. Washington, D.C., 1933. 8p.
- Scheme for utilization of Amu-Darya river. V. Vassilyev. Vestnik irrigatziyi. no. 12. p.105-112. December 1929. Project, worked out by Amu-Darya Bureau, for diversion and storage system to irrigate 4,000,000 hectares, capable of producing 60,000,000 pounds of cotton per annum; construction of project estimated to cost nearly 1-1/2 billion rubles. In Russian.
- Studies in growth analysis of the cotton plant under irrigation in the Sudan; effects of different combinations of nitrogen application and water-supply. F. Crewther. Annals of botany. v.48. p.877-913. October 1934.
- Summer irrigation of Pima cotton. R.D. Martin and H.F. Loomis. U.S. Department of agriculture. Journal of agricultural research. v.23. p.927-946. March 24, 1923.
- Water requirements of cotton on sandy loam soils in southern San Joaquin valley. S.H. Beckett and C.F. Dunshee. California. Agricultural experiment station. Bulletin no.537. Berkeley, Cal., 1932. 48p.
- Watering and spacing experiments with Egyptian cotton. J. Templeton. Cairo, Government press, 1932. 7p. Egypt. Ministry of agriculture. Technical and scientific service. Botanical section. Bulletin no.112.
- Lettuce
- Lettuce irrigation studies. H.C. Schwalen and M.F. Wharton. Arizona. Agricultural experiment station. Bulletin no.133. Tucson, Ariz., 1930. 463-517p.

Studies in lettuce seedbed irrigation under high temperature conditions. M.F. Wharton and C. Hebert. Arizona. Agricultural experiment station. Technical bulletin no.33. Tucson, Ariz., 1931. 283-303p.

Nuts

Account of irrigation and drainage control on an area of dwarf cocoanuts. H.H. Wardlaw and F.W. Masen. Malayan agricultural journal. v.24. p.421-431. September 1936.

Consider the walnut and its thirst. W.C. Toscho. Pacific rural press. v.112. p.622. December 4, 1926.

Early irrigation of walnuts essential. California cultivator. v.62. p.542. May 10, 1924.

Irrigating filberts. H.B. Harlan. Oregon state horticultural society. Report, 1935. p.175-178. Corvallis, Ore., 1926.

Irrigation of walnut orchards. M.R. Huberty. California cultivator. v.81. p.69. February 17, 1934.

Methods of harvesting and irrigation in relation to moldy walnuts. L.D. Batchelor. California. Agricultural experiment station. Bulletin no.367. Berkeley, Cal., 1923. 677-696p.

Suggestions for summer irrigation of walnuts. M.H. Kimball. California cultivator. v.82. p.447+ August 3, 1935.

Orchard irrigation

Apple culture in Victoria; irrigation. J. Farrell. Journal of the Department of agriculture of Victoria. v.16. p.355-363, 454-462. June, August 1918.

Apple orchard irrigation in Ohio; discussion. Michigan state horticultural society. Report, 1934. p.77-84. East Lansing, Mich., 1935.

Application of water by means of sprinklers. A.G. Salter. California cultivator. v.82. p.450. August 3, 1935.

Best method of irrigating fruit trees. D.L. Teague. Pacific rural press. v.100. p.136. July 31, 1920.

Brief observations on winter irrigation of citrus. J.D. Culbertson. California cultivator. v.55. p.827. December 25, 1920.

Contour check method of orchard irrigation. J.B. Brown. California. Agricultural extension service. Circular no.73. Berkeley, Cal., 1933. 19p.

- Contour orchard irrigation. California cultivator. v.80. p.211+
April 29, 1933.
- Distributing irrigation water in an orchard. Better fruit. v.14.
p.14. June 1920.
- Essentials of irrigation and cultivation of orchards. F.J. Veihmeyer
and A.H. Hendricksen. California. Agricultural extension service.
Circular no.50. Berkeley, Cal., 1936. 24p.
- Experiments in the irrigation of apple orchards. E.P. Taylor and
G.J. Downing. Idaho. Agricultural experiment station.
Bulletin no.99. Moscow, Idaho, 1917. 48p.
- Farm irrigation. A.A. Mills - Orchard and vineyard irrigation.
E.S. Richman. Utah. Agricultural experiment station. Bulletin
no.39. Logan, Utah, 1895. 76p.
- Fruit - growing under irrigation under the climatic and geographical
conditions pertaining to the Murray valley. F.R. Arndt. Adelaide,
Hassell press, 1930. 214p. Different systems of watering used
in irrigation areas, laying out the land for watering, irrigation,
amount of water to use.
- Furrow irrigation of apple orchards; soil moisture relationship. C.A.
Larsen. Washington state horticultural association. Proceedings,
1932. p.217-222. Pullman, Wash., 1933.
- Furrow irrigation of apple orchards; tree and fruit response. L.L.
Claypool. Washington state horticultural association. Proceed-
ings, 1932. p.223-230. Pullman, Wash., 1933.
- Hints on orchard irrigation. W. McCutcheon. Agricultural gazette
of New South Wales. v.47. p.33-34. January 1936.
- Irrigating peach orchards. H.W. Johnstone. California cultivator.
v.68. p.722. June 18, 1927.
- Irrigating the orchard. A.G. Bancker. Field illustrated. v.34.
p.11-12. April 1924.
- Irrigating the orchard. L.M. Mason. Kansas state horticultural
society. Report, 1933. p.112-117. Topeka, Kans., 1934.
- Irrigating the young orchard. E.L. Koethon. California cultivator.
v.55. p.835. December 25, 1920.
- Irrigation and quality fruit. P.A. Bonequet. California cultivator.
v.74. p.395. April 5, 1930.
- Irrigation experiments with peaches in California. A.H. Hendricksen and
F.J. Veihmeyer. California. Agricultural experiment station.
Bulletin no.479. Berkeley, Cal., 1929. 56p.

- Irrigation experiments with prunes. A.H. Hendricksen and F.J. Veihmeyer. California. Agricultural experiment station. Bulletin no.573. Berkeley, Cal., 1934. 44p.
- Irrigation in fruit growing. E.J. Wicksen. U.S. Department of agriculture. Farmers' bulletin no.116. Washington, D.C., 1900. 48p.
- Irrigation in the orange orchard. W.M. Bristol. California cultivator. v.55. p.829. December 25, 1920.
- Irrigation in the orchard; with discussion. F.H. Wissler. Michigan state horticultural society. Report, 1934. p.69-77. East Lansing, Mich., 1935.
- Irrigation of deciduous orchards and vineyards. F.J. Veihmeyer and A.H. Hendricksen. Pacific rural press. v.131. p.334-335. March 14, 1936.
- Irrigation of orchards. Samuel Fortier. U.S. Department of agriculture. Farmers' bulletin no.404. Washington, D.C., 1910. 36p.
- Irrigation of orchards. S. Fortier. U.S. Department of agriculture. Farmers' bulletin no.882. Washington, D.C., 1923. 40p.
- Irrigation of orchards by contour furrows. M.R. Huberty and J.B. Brown. California. Agricultural extension service. Circular no.16. Berkeley, Cal., 1928. 16p.
- Irrigation of orchards by sprinkling. F.L. Overly and others. Washington. Agricultural experiment station. Bulletin no.268. Pullman, Wash. 1932. 50p.
- Irrigation of peaches. L.D. Bacheler. Utah. Agricultural experiment station. Bulletin no.142. Logan, Utah, 1916. 23p.
- Irrigation practice among fruit growers on the Pacific coast. E.J. Wicksen. U.S. Department of agriculture. Office of experiment station. Bulletin no.108. Washington, D.C., 1902. 54p.
- Irrigation practice, with special reference to fruit growing in the northwest. W.L. Powers. Portland, Ore., 1912. 68p.
- Orchard device proposed to perform four important duties. California cultivator. v.13. p.30. November 1927.
- Orchard irrigation. R.L. Adams. Better fruit. v.13. p.17+ February 1919.
- Orchard irrigation. F.R. Arndt. Journal of the Department of agriculture of South Australia. v.21. p.959-967. July 1918.

- Orchard irrigation. J.H. Darwent. Journal of the Department of agriculture of South Australia. v.21. p.920-923. June 1918.
- Orchard irrigation. S. Fortier. U.S. Department of agriculture. Farmers' bulletin no.1518. Washington, D.C., 1927. 27p.
- Orchard irrigation. G.A. Schurk. Iowa state horticultural society. Report, 1934. p.66-69. Des Moines, Ia., 1935.
- Orchard irrigation experiences. H.L. Mantle; L.G. Dean; F. Farnsworth. Ohio state horticultural society. Proceedings, 1935. p.91-100. Columbus, O., 1936.
- Orchard irrigation on municipal plan. W.S. Killingsworth. Pacific rural press. v.99. p.851. May 29, 1920.
- Orchard irrigation plans. G.P. Weldon. Pacific rural press. v.131. p.338. March 14, 1936.
- Orchard irrigation question in the Pacific northwest. R.W. Allen. Better fruit. v.13. p.5-6. July 1918.
- Orchard irrigation studies in the Rogue river valley. C.I. Lewis, E.J. Kraus and R.W. Rees. Oregon. Agricultural experiment station. Bulletin no.113. Corvallis, Ore., 1912. 47p.
- Orchard tillage under straight-furrow irrigation. C.A. Taylor. Agricultural engineering. v.16. p.99-102. March 1935. Methods and implements developed in Oregon for orchard tillage making possible control of weeds effectively without breaking down furrows, and leading to more efficient use of fertile top soil, increased efficiency in irrigation and better control of run-off and erosion.
- Orchard water distribution. H.J. Wilder. Pacific rural press. v.125. p.224. March 25, 1933.
- Our experience with canvas hose irrigation in the orchard. C.E. Dutton. Ohio state horticultural society. Proceedings, 1933. p.70-78. Columbus, O., 1934.
- Points in orchard irrigation. Orange Judd farmer. v.60. p.15. March 4, 1916.
- Practical orchard sub-irrigation for the planting and growing of fruit and other trees in arid climates. Henry Kliower. Gotebo, Okl., 1911. 2 pts. in 1 v.
- Protection of our fruit crops from late spring frosts and the conservation of our wasted rainfall. J.W.N. Cumming. With a note on karezes and wells and the possibilities of the strainer tube wells in the Quetta valley. H.A. MacArthur. Quetta, Printed by Chaudry Karam Dad, 1920. 52p.

- Pump irrigation for orchards. E. E. Brackett. Nebraska. Board of agriculture. Report, 1935. Lincoln, Neb., 1936. p.534-536.
- Some efficiency factors in orchard irrigation. W. C. Tesche. Pacific rural press. v.121. p.366-367. March 28, 1931.
- Some experience with fruit under irrigation. F. G. Chomley. Agricultural gazette of New South Wales. v.32. p.273-276. April 1921.
- Some experiences with irrigating Indiana orchards in 1934. C. E. Baker. Indiana horticultural society. Transactions, 1934. p.51-56. Lafayette, Ind., 1935.
- Some factors affecting the irrigation requirements of deciduous orchards. F. J. Veihmeyer. California. Agricultural experiment station. Hilgardia. v.2. p.125-290. January 1927.
- Spring irrigation of citrus orchards. W. R. Schoonover. California citrograph. v.10. p.235. May 1925.
- Studies of the irrigation of pear orchards on heavy soil near Medford, Ore. M. R. Lewis and others. U. S. Department of agriculture. Technical bulletin no.432. Washington, D. C., 1934. 33p.
- Suggestions on orchard irrigation. Better fruit. v.16. p.5-6. June 1922.
- Use of a limited water supply. California cultivator. v.82. p.190. March 30, 1935.
- Watering the orchard. F. M. Allen. Fruit grower. v.28. p.251. May 1, 1917.
- Winter irrigation of deciduous orchards. A. J. McClatchie. Arizona. Agricultural experiment station. Bulletin no.37. Tucson, Ariz., 1901. 207-240p.
- Potato.
- Comparison of irrigated and non-irrigated seed potatoes. F. M. Harrington. Montana. Agricultural experiment station. Bulletin no.279. Bozeman, Mont., 1933. 11p.
- Effect of irrigation water on vigor and vitality of seed potatoes. W. C. Edmundson. U. S. Department of agriculture. Technical bulletin no.216. Washington, D. C., 1930. 6p.
- Effect of the frequency of irrigation on potatoes grown in Mimbres valley, New Mexico. D. W. Bloodgood. New Mexico. Agricultural experiment station. Bulletin no.205. State College, N. M., 1932. 27p.

- Forage and root crops. C.S. Knight. Nevada. Agricultural experiment station. Bulletin no.86. Reno, Nev., 1917. 20p.
- Irrigating potatoes with a porous canvas hose. O.E. Robey. Michigan. Agricultural experiment station. Quarterly bulletin. v.14. East Lansing, Mich., 1932. p.142-146.
- Irrigation experiments with potatoes. F.S. Harris and D.W. Pittman. Utah. Agricultural experiment station. Bulletin no.187. Logan, Utah, 1923. 15p.
- Irrigation of potatoes. F.S. Harris. Utah. Agricultural experiment station. Bulletin no.157. Logan, Utah, 1917. 20p.
- Irrigation of potatoes. W.L. Powers. Oregon. Agricultural college. Extension service. Circular no.91. Corvallis, Ore., 1918. 4p.
- Irrigation of potatoes. W.L. Powers and W.W. Johnston. Oregon. Agricultural experiment station. Bulletin no.173. Stillwater, Ore., 1920. 28p.
- Potato crop under irrigation. G.R. Syfret. Rhodesia agricultural journal. v.22. p.357-360. June 1925.
- Potato culture on irrigated farms of the east. E.H. Grubb. U.S. Department of agriculture. Farmers' bulletin no.386. Washington, D.C., 1910. 11p.
- Potato culture under irrigation. W. Stuart and others. U.S. Department of agriculture. Farmers' bulletin no.953. Washington, D.C., 1922. 23p.
- Potato production in the far western states. William Stuart. U.S. Department of agriculture. Farmers' bulletin no.1639. Washington, D.C., 1930. 17p.
- Potato production under irrigation. J.T. Ramsay. Journal of the Department of agriculture of Victoria. v.22. p.355-360. June 1924.
- Potatoes in irrigated rotations. D.A. Savage. Montana. Agricultural experiment station. Bulletin no.263. Bozeman, Mont., 1932. 36p.
- Potatoes in irrigated rotations. D.A. Savage. Nebraska. Agricultural experiment station. Bulletin no.282. Lincoln, Neb., 1933. 31p.
- Results of Irish potato experiments in the Bluewater New Mexico irrigation district. F. Garcia and S.C. Yeung. New Mexico. Agricultural experiment station. Bulletin no.218. State College, N.M., 1934. 28p.

- Studies in time and rate of irrigating potatoes in Colorado. W.C. Edmundson. U.S. Department of agriculture. Technical bulletin no. 118. Washington, D.C., 1929. 21p.
- Rice
- Amount of salt in irrigation water injurious to rice. F.C. Quéroau. Louisiana. Agricultural experiment station. Bulletin no. 171. Baton Rouge, La., 1920. 14p.
- Contributo alle studio degli effetti dell' acrazione artificiale dell' acqua e indirettamente del terreno nelle risaie. Novello Novelli. Novara, 1909. 12p.
- Cost of pumping and duty of water for rice on the Grand prairie of Arkansas. B.S. Clayton. Arkansas. Agricultural experiment station. Bulletin no. 261. Fayetteville, Ark., 1931. 48p.
- Cost of pumping from wells for the irrigation of rice in Louisiana and Arkansas. W.B. Gregory. U.S. Department of agriculture. Office of experiment stations. Bulletin no. 201. Washington, D.C., 1908. 39p.
- Effect of salt water on rice. G.S. Fraps. Texas. Agricultural experiment station. Bulletin no. 122. College Station, Tex., 1909. 6p.
- Effect of salt water on rice. G.S. Fraps. Texas. Agricultural experiment station. Bulletin no. 371. College Station, Tex., 1927. 10p.
- Electricity makes rice industry possible. W.E. Camp. Journal of electricity. v. 43. p. 102-104. August 1, 1919.
- Good rice irrigation method; abstract. A. Tarchetti. International review of agriculture. v. 18. p. 706-707. July 1927.
- Irrigation of rice. C.F. Dunshee. California countryman. v. 11. p. 9-10. April 1925.
- Irrigation of rice fields in the tropics. R. Dument. International review of agriculture. v. 25. p. 442-449. October 1934.
- Irrigation of rice in California. R.D. Robertson. California. Agricultural experiment station. Bulletin no. 279. Berkeley, Cal., 1917. 254-270p.
- Irrigation of rice in the United States. Frank Bond and G.H. Keeney. U.S. Department of agriculture. Office of experiment station. Bulletin no. 113. Washington, D.C., 1902. 77p.

- Irrigation of rice on the coastal prairies of Texas. C.G. Haskell. Texas. Department of agriculture. Bulletin no. 43. Austin, Tex., 1912. p.88-116.
- Irrigation of ricefields. Electrician. v.109. p.310. September 9, 1932.
- Irrigation practice in rice growing. C.G. Haskell, U.S. Department of agriculture. Farmers' bulletin no. 673. Washington, D.C., 1915. 12p.
- Measurement of water for rice irrigation. A.A. Blakesley. Western construction news. v.4. p.671. December 25, 1929. Practice and rates of Merced irrigation district; Great western meter was chosen as being most practical.
- Mechanisch rijsbedrijf in Ned.-Indie. J.H. Levert. Ingenieur. v.35. p.805-806. October 23, 1920. Irrigation of rice fields in Dutch Indies. Project for construction of embankment 4 ft high with inexpensive type of sluice around experimental fields.
- Now rice irrigation system. R.E. Hodges. Pacific rural press. v.105. p.462. April 14, 1923.
- Pump development history parallels rice irrigation in Gulf states. B.S. Nelsen. Hydraulic engineering. v.4. p.272, 293-295, 301. May 1928. Large demand for economical pumping equipment and prime movers created by irrigators using large water volumes; rice irrigation; advent of electricity; Armco pipe used.
- Rice farm irrigation systems in Louisiana, 1929. R.J. Saville. Louisiana. Agricultural experiment station. Bulletin no. 216. Baton Rouge, La., 1930. 19p.
- Rice field irrigation in Arkansas. Engineering and contracting. v.61. p.115-116. January 9, 1924.
- Rice irrigation in Louisiana and Texas in 1903 and 1904. W.B. Gregory. U.S. Department of agriculture. Office of experiment stations. Bulletin no. 158. Washington, D.C., 1905. p.509-544.
- Rice irrigation in Texas. T.U. Taylor. Texas. University. Bulletin no. 16. Austin, Tex., 1902. 49p.
- Rice irrigation measurements and experiments in Sacramento valley, 1914-1919. Frank Adams. California. Agricultural experiment station. Bulletin no. 325. Berkeley, Cal., 1920. 69p.
- Rice irrigation on the prairie land of Arkansas. C.E. Tait. U.S. Department of agriculture. Office of experiment stations. Bulletin no. 158. Washington, D.C., 1905. 545-565p.

- Rice irrigation on the Grand prairie of Arkansas. B.S. Clayton.
Agricultural engineering. v.11. p.110-112. March 1930.
Source of water supply, prime movers, pumps, wells, duty of water,
cost of pumping; data from 1929 pumping season.
- Savage irrigation in Lazon; the wonderful rice terraces of the head-
hunting Ifugaos. H. Wright. Scientific american. v.106.
p.108. February 3, 1912.
- Underground waters of southern Louisiana. G.D. Harris; with discus-
sions of their uses for water supplies and for rice irrigation.
M.L. Fuller. Washington, D.C., Government printing office, 1904.
98p. U.S. Geological survey. Water-supply and irrigation paper
no.101.
- Venice in the rice fields. H.F. Wilkins. Far east review. v.24.
p.321-325. July 1928.
- Water requirements for rice culture in Sacramento valley, Cal.
Engineering and contracting. v.59. p.1074-1076. May 9, 1923.
- Water resources of Texas and their utilization. W.L. Rockwell.
Irrigation of rice on the coastal prairies of Texas. C.G. Haskell.
Texas. Department of agriculture. Bulletin no.43. Austin,
Tex., 1915. 116p.
- Small Fruit
- Berry crops assured with irrigation. L. Berg. Better fruit. v.22.
p.8. July 1927.
- Culture of small fruits on irrigated sandy land. R.W. Allen. Oregon.
Agricultural experiment station. Bulletin no.142. Corvallis,
Cre., 1917. 14p.
- Fruit growing on the plains. J.E. Payne. U.S. Department of agri-
culture. Bureau of plant industry. Bulletin no.130.
Washington, D.C., 1908. p.61-67.
- Irrigating strawberries and raspberries. A.M. Streed. Minnesota
horticulturist. v.63. p.70-71. April 1935.
- Irrigation an aid in strawberry growing. W.R. Merten. Minnesota
horticulturist. v.61. p.164-165. November 1933.
- Irrigation for blackberries. Fruit grower. v.28. p.236.
April 15, 1917.
- Irrigation in fruit growing. E.J. Wickson. U.S. Department of
agriculture. Farmers' bulletin no.116. Washington, D.C.,
1900. 48p.

Irrigation practice, with special reference to fruit growing in the northwest. W.L. Powers. Portland, Ore., 1912. 68p.

Irrigation practice among fruit growers on the Pacific coast. W.J. Wickson. U.S. Department of agriculture. Office of experiment stations. Bulletin no.108. Washington, D.C., 1902. 54p.

Irrigation practice in growing small fruits in California. W.A. Hutchins. California. Agricultural experiment station. Circular no.154. Berkeley, Cal., 1916. 35p.

Irrigation will pay dividends. Better fruit. v.28. p.5. June 1934.

More irrigation needed for raisins. F.K. Howard. Pacific rural press. v.104. p.463. October 28, 1922.

Practical information on irrigation for British Columbia fruit growers. B.A. Etcheverry. Victoria, B.C., Printed by W.H. Cullen, printer to the King's most excellent majesty, 1912. 119p. British Columbia. Department of agriculture. Bulletin no.44.

Preliminary report on effect of irrigation on major berry crops on the Willamette valley. C.E. Schuster and others. Oregon. Agricultural experiment station. Bulletin no.277. Corvallis, Ore., 1931. 51p.

Small fruit irrigation. A.S. Colby. Illinois state horticultural society. News letter no.8. Salem, Ill., 1936. 3p.

Small fruits culture by irrigation: water supply storage and distribution; culture of the strawberry. S.C. Mason and F.C. Sears. Kansas. Agricultural experiment station. Bulletin no.55. Manhattan, Kan., 1895. 127-148p.

Watered profits from modern irrigation. I.W. Dickerson. American fruit grower. v.54. p.5+ August 1934.

Sugar Beets

Canada studies the irrigation of sugar beets. H.W. Snelson. Modern irrigation. v.3. p.16-19. March 1927. Province of Alberta conducts exhaustive tests to determine best procedure for culture.

Irrigation and growth of sugar beets. F.C. Jean. Louisiana planter. v.2. p.86-87. July 1924.

Irrigation experiments in sugar-beet culture in the Yakima valley. Elton Fulmer. Washington. Agricultural experiment station. Bulletin no.31. Pullman, Wash., 1897. 30p.

Irrigation experiments with sugar beets. F.S. Harris and D.W. Pittman. Utah. Agricultural experiment station. Bulletin no.186. Logan, Utah, 1923. 19p.

- Irrigation of sugar beets. J.E. Coke. Pacific rural press. v.132. p.637. December 5, 1936.
- Irrigation of sugar beets. F.S. Harris. Utah. Agricultural experiment station. Bulletin no.156. Logan, Utah, 1917. 24p.
- Irrigation of sugar beets. F.W. Roeding. U.S. Department of agriculture. Farmers' bulletin no.392. Washington, D.C., 1910. 52p.
- Sugar-beet growing under irrigation. C.O. Townsend. U.S. Department of agriculture. Farmers' bulletin no.567. Washington, D.C., 1924. 32p.
- Sugar beet growing under irrigation in the Utah-Idaho area. S.B. Nuckols. U.S. Department of agriculture. Farmers' bulletin no.1645. Washington, D.C., 1931. 34p.
- Sugar beet irrigation studies. H.E. Brewbaker. Facts about sugar. v.28. p.93-94. February 1933. Experimental results obtained in 1931 in northern Colorado by Department of agriculture and Colorado experiment station.
- Sugar beets under irrigation in Washington. F.J. Sievers and E.G. Shafer. Washington. Agricultural experiment station. Bulletin no.154. Pullman, Wash., 1919. 41p.
- Sugar on the Kansas plains; where others failed, the Garden city company makes 40,000 acres pay. A.B. Macdonald. Country gentleman. v.85. p.10-11. January 24, 1920.

Sugar Cane

- Cane field irrigation and malaria. W.C. Earle. Sugar. v.28. p.384-385. August 1926.
- Culture of sugar cane. Report on water supply for irrigation on the Honoliuli and Kahuku ranches, Island of Oahu, Hawaiian islands. James D. Schuyler and G.F. Allardt. Oakland, Cal., Jordan & Arnold, printers, 1889. 32p.
- Duty of water. N. King. Planter and sugar manufacturer. v.80. p.3-5, 24. January 7, 14, 1928. Explains how to measure water, types of devices, when to apply water and amount, methods of irrigating; soil moisture determinations are advisable. Straight or long line irrigation; water consumption from standpoint of short cropping; duty of water terminology.
- L'irrigation de la canne a sucre a Cuba. J. de Vilmorin. Academie d'agriculture de France. Comptes rendus. v.16. p.618-630. May 28, 1930.

Irrigation experiments of 1905. C.F. Eckart. Honolulu, H.T., 1905. 17p. Report of work of the Experiment station of the Hawaiian sugar planters' association, Division of agriculture and chemistry. Bulletin no. 14.

Irrigation in cane growing. H. Edison. Sugar. v.29. p.511-513. November 1927. Methods of irrigation; application in Porto Rico; value to grower.

Irrigation in Hawaii. George B. Sturgeon. California journal of technology. v.12. p.9-18. November 1908. Describes the conditions, and the irrigation works for the production of sugar-cane.

Irrigation in the Hawaiian cane fields. International sugar journal. v.25. p.180-184. April 1923.

Irrigation of sugar cane. Planter. v.78. p.241. March 26, 1927.

Irrigation of sugar cane. P.V. Goldsmith. Planter and sugar manufacturer. v.82. p.305. April 20, 1929. Source of water is from driven wells, several of these being connected to one pumping unit; average list is about 15 ft.; pumping units are of rotary type and are driven by gas engine.

Irrigation of sugar cane in Hawaii. W.P. Alexander. Honolulu, Hawaiian sugar planters' association, 1923. 109p.

Irrigation works in the Hawaiian islands. M.M. O'Shaughnessy. Engineering news. v.61. p.399-403. April 15, 1909. An illustrated account of the extensive development of irrigation projects to furnish water for the sugar-cane lands.

Moisture as a cane production factor. A. Fox. Sugar. v.25. p.138. March 1923.

Note on the outturn and profit from sugar-cane crops grown in the Deccan canal tracts. C.C. Inglis and V.K. Gokhale. India. Bombay. Public works department. Technical paper no.21. Bombay, 1928. 21p.

Notes on the irrigation of sugar cane. H.F. Hungerford. Planter. v.75. p.109. August 8, 1925.

Present status of sugar cane irrigation in Cuba; abstract. J.T. Crawley. International sugar journal. v.32. p.521-522. October 1930.

Progress of cane field irrigation in Cuba. Facts about sugar. v.25. p.77-78. January 25, 1930.

Rational distribution of irrigation water as practiced on Ewa plantation. W.P. Alexander. Honolulu, Printed by Honolulu star-bulletin, 1928. 46p.

- Recent experiments with saline irrigation. C. F. Eckart. Hawaiian sugar planters' association. Experiment station and laboratories. Agricultural division. Bulletin no.11. Honolulu, 1904. 14p.
- Report on the results obtained at the government experiment station for the investigation of problems connected with the irrigation of sugar cane at Medine, Mauritius, 1921-26. H. A. Tempany. Mauritius. Department of agriculture. General series v.36. p.1-58. 1926.
- El riego de la cana de azucar. El Mundo azucarero. v.11. p.69-70. October 1923.
- El riego en cultivo de cana. H. Edson. Sugar. v.29. p.595-596. December 1927. Irrigation in the cultivations of sugar. Increase in cost of crop by irrigation must be justified by additional profit; comparison of sugar economics in Porto Rico and Santa Domingo.
- El riego por el ingenio de azucar. A. Reynoso. Sugar. v.23. p.227-229. April 1921.
- Sugar cane irrigation in Cuba. J. T. Crawley. Facts about sugar. v.25. p.205-209. March 1, 1930.
- Vineyard.
- De l'effet des arrosages tardifs sur la production de la vendange. Achille Muntz and Ed. Alby. Annales de la science agronomique francaise et etrangere. v.1. p.296-315. Paris, 1899.
- Does irrigation affect the quality of grapes? A. A. Jungerman. California cultivator. v.74. p.483. April 26, 1930.
- Effective vineyard irrigation. D. J. Whitney. Pacific rural press. v.103. p.666. June 10, 1922.
- Grape culture, with special reference to commercial production under irrigation in eastern Oregon. R. W. Allen. Oregon. Agricultural experiment station. Bulletin no.126. Corvallis, Ore., 1915. 31p.
- Vineyard irrigation. F. de Castella. Journal of the Department of agriculture of Victoria. v.33. p.137-142. March 1935.
- Vineyard irrigation in arid climates. F. T. Bioletti. California. Agricultural experiment station. Circular no.228. Berkeley, Cal., 1921. 4p.
- Water; its application to fruit trees and vines. G. Quinn. Journal of the Department of agriculture of South Australia. v.20. p.707-711. April 1917.
- Winter irrigation of vineyards. F. de Castella. Journal of the Department of agriculture of Victoria. v.30. p.340-342. July 1932.

Wheat

- Border effect in irrigated plots of Marquis wheat receiving water at different times. D.W. Robertson and Dwight Koonce. U.S. Department of agriculture. Journal of agricultural research. v.48. p.157-166. January 15, 1934.
- Dry-farmed and irrigated wheat. J.S. Jones and C.W. Colver. Idaho. Agricultural experiment station. Bulletin no.88. Moscow, Idaho. 1916. 18p.
- Electricity raises rice to save wheat. Electrical world. v.72. p.449-450. September 7, 1918.
- Flax-wheat mixtures under irrigation. C. McKee. Montana. Agricultural experiment station. Bulletin no.202. Bozeman, Mont., 1927. 16p.
- Irrigation and the protein content of wheat. J.S. Jones and others. Idaho. Agricultural experiment station. Bulletin no.109. Moscow, Idaho, 1918. 43p.
- Irrigation experiments with wheat. A.T. Bartel and C. Hobart. Arizona. Agricultural experiment station. Bulletin no.151. Tucson, Ariz., 1935. 355-388p.
- Irrigation of wheat. F.S. Harris. Utah. Agricultural experiment station. Bulletin no.146. Logan, Utah, 1916. 31p.
- Irrigation of wheat in Nevada. C.S. Knight. Nevada. Agricultural experiment station. Bulletin no.92. Reno, Nev., 1918. 23p.
- Saving of irrigation water in wheat growing. Albert Howard and G.L.C. Howard. 2d edition. Quetta, Baluchistan. Fruit experiment station. Bulletin no.4. Calcutta, 1919. 22p.
- Saving of irrigation water in wheat growing. Albert Howard and G.L.C. Howard. Pusa. Agricultural research institute. Bulletin no.118. Calcutta, 1921. 22p.
- Soil moisture and winter wheat with suggestions on abandonment. A.L. Hallsted and O.R. Mathews. Kansas. Agricultural experiment station. Bulletin no.273. Manhattan, Kan., 1936. 46p.
- Studies on the critical period for applying irrigation water to wheat. D.W. Robertson and others. Colorado. Agricultural experiment station. Technical bulletin no.11. Fort Collins, Colo., 1934. 43p.
- Use of water by spring wheat on the Great Plains. John S. Cole and others. U.S. Department of agriculture. Department bulletin no.1004. Washington, D.C., 1923. 34p.

Wheat varieties under irrigation. LeRoy Powers. Montana. Agricultural experiment station. Bulletin no.234. Bozeman, Mont., 1930. 42p.

DISTRICTS

Central irrigation district, California. Its physical engineering and business problems and conditions. W.H. Hall. Its legal status. Wilson and Wilson. California state association of irrigation districts. San Francisco, Cal., 1891. 63p.

El Dorado irrigation district, California. Western construction news. v.2. p.39-43. January 25, 1927. Present development and rate of growth; proposed present and ultimate development.

Farmers' irrigation district, Nebraska. Rehabilitation and agricultural report. Paul A. Ewing and Wells A. Hutchins. With classification of lands by University of Nebraska, Conservation and survey division and agricultural experiment station. n.p., 1933. 99p. multigraphed.

Formation of irrigation districts, issuance of bonds, by irrigation districts, expenditure of construction funds by irrigation districts, construction of dams... Sacramento, Cal., California state printing office, 1922. 14p. California. Department of public works. Division of engineering and irrigation. Bulletin no.2.

History of the irrigation district idea in the west. Irrigation age. v.31. p.86-88. April 1916.

Human qualities essential in the irrigation district. G. Ebner. Engineering news record. v.92. p.846-847. May 15, 1924.

Irrigation developments through irrigation districts. E.C. Eaton and F. Adams. American society of civil engineers. Transactions. v.90. p.773-786. 1927. Present status of irrigation districts; state control of organization and financing; typical irrigation districts.

Irrigation district operation and finance. W.A. Hutchins. U.S. Department of agriculture. Department bulletin no.1177. Washington, D.C., 1923. 56p.

Irrigation district plan favored. Engineering news record. v.81. p.850-851. November 7, 1918.

Irrigation districts. U.S. General land office. Circulars and regulation. Washington, D.C., 1930. p.729-738.

Irrigation districts. C.K. Fox. California cultivator. v.64. p.618, 641. May 30 - June 6, 1925.

Irrigation districts in California. F. Adams. Sacramento, Cal.,
California state printing office, 1929. 418p. California.
Department of public works. Division of water resources. Bulletin
no.21. Forms of districts for irrigation or water conservation
authorized by California statutes; development of irrigation law since
1897; active California irrigation district; inactive and partially
active irrigation districts; status of districts organized for irriga-
tion or water conservation other than irrigation districts.

Irrigation districts in California 1887 - 1915. Frank Adams ...
Sacramento, Cal., California state printing office, 1916. 151p.
California. Department of engineering. Bulletin no.2.

Irrigation districts in the United States. F. Adams. Pan American
scientific congress. Proceedings. 1915. v.3. p.162-168.
1917.

Irrigation districts, their organization, operation and financing. W.A.
Hutchins. U.S. Department of agriculture. Technical bulletin
no.254. Washington, D.C., 1931. 93p.

Refinancing of drainage, levee, and drainage districts. E. Schram.
Agricultural engineering. v.16. p.151-154. April 1935.

Rehabilitation of irrigation districts. W.W. McLaughlin. Agricultural
engineering. v.11. p.116-118. March 1930.

Report on irrigation districts in California for the years 1929-1933.
Sacramento, Cal., California state printing office, 1930-1934. 5v.
California. Department of public works. Division of water resources.
Bulletin no.21.

Valuable data on irrigation districts now available. Investment bankers
association of America. v.19. p.67-68. February 27, 1931.

What effect does an irrigation district have on landowners? W.O. Cotton.
Irrigation age. v.32. p.87-90. April 1917.

ECONOMICS.

Agricultural side of irrigation. S. Fortier. Engineering news.
v.64. p.444-445. October 27, 1910. On the importance
of the agricultural side of the subject, the difficulties, the proper
use of water, assistance needed.

Agriculture and irrigation: a problem of economic development. S.K. Gurtu.
Agricultural journal of India. v.14. p.541-548.
July 1919.

American irrigation policies. David Weeks. New York, American council,
Institute of Pacific relations, 1933. 26p.

Benefits of irrigation west of the Cascades. G.E. Goodwin. Civil
engineering. v.6. p.667-670. October 1936.

- Delivery of irrigation water. Wells A. Hutchins. U. S. Department of agriculture. Technical Bulletin no.47. Washington, D. C., 1928. 48p.
- Distribution of water: Powers and duties of irrigation officials in Colorado. H. N. Haynes. Colorado. Agricultural experiment station. Bulletin no.67. Fort Collins, Colo., 1901. 31p.
- Economic advisability of irrigation. F. H. Newell. International engineering congress, 1915. Transactions. San Francisco, Cal., 1916. p.371-397.
- Economic and social aspects of federal reclamation. Dorothy Lampen. Baltimore, Md., Johns Hopkins press, 1930. 125p. Johns Hopkins university. Studies in history and political sciences. series v.47, no.1.
- Economic conditions and settlement difficulties on the Milk river project, Montana. H. H. Johnson. New reclamation era. v.19. p.98-102. July 1928. Project development slow; crop methods changing; irrigation costs low; attitude of landowners changing; more farmers necessary; development costs high; credit required for other purposes.
- Economic history of the Newlands irrigation project. F. B. Headley and C. Venstrom. Nevada. Agricultural experiment station. Bulletin no. 120. Reno, Nev., 1930. 30p.
- Economic problems in agriculture by irrigation. H. C. Taylor. Journal of political economy. v.15. p.209-228. April 1907.
- Economic report on the north unit of the Deschutes project, Oregon. Letter from the secretary of the interior transmitting the economic report on the north unit of the Deschutes project, Oregon, dated February 19, 1926 ... Washington, D. C., Government printing office, 1927. 41p. U. S. 69th congress. House. Document no.663.
- Economic results of federal reclamation. E. Mead. New reclamation era. v.22. p.2-3. January 1931. General review of agricultural and economic achievements under irrigation; crop values; projects to be completed; Hoover dam construction; changing conditions under reclamation.
- Economic studies of irrigated farms in Big Horn county. A. F. Vass and H. Pearson. Wyoming. Agricultural experiment station. Bulletin no.205. Laramie, Wyo., 1935. 137p.
- Economic study of irrigated farming in Twin Falls county, Idaho. B. Hunter and S. B. Nuckols. U. S. Department of agriculture. Department bulletin no.1421. Washington, D. C., 1926. 74p.

- Economic survey of certain federal and private irrigation projects.
Hearings before the Committee on irrigation and reclamation, House
of representatives, 71st congress, 2d session. March 6, 1930.
Washington, D.C., U.S. Government printing office, 1930. 314p.
- Economics and politics of the reclamation service. F.W. Blackmar.
Forum. v.38. p.131-138. July 1906.
- Economics of irrigation practice. W.H. Snelson. Agricultural gazette
of Canada. v.10. p.257-261. May 1923.
- Economics of land reclamation in the United States. R.P. Teele.
Chicago, and New York, A.W. Shaw company, 1927. 337p.
- Federal irrigation projects; their economic and social value. G.C.
Kreutzer. New reclamation era. v.20. p.130-132. September
1929. Economic value of irrigation is illustrated by facts con-
cerning Shoshone dam which was completed in 1910 in Wyoming and
which are cited as typical.
- How can greater efficiency in irrigation management be secured? W.O.
Cotton. Irrigation age. v.32. p.24-25. December 1916.
- Human flaw in irrigation schemes. Literary digest. v.46. p.1421-
1422. June 28, 1913.
- Human side of irrigation. F.H. Newell. Engineering record. v.70.
p.236-237. August 29, 1914. Presents problems facing the
manager of the completed irrigation system.
- Irrigation and homebuilding and their relations to the development of
trade, commerce, transportation and markets for manufacturers.
George H. Maxwell. n.p., 1910. 37p.
- Irrigation and its cost to the farmer. P.A. Ewing. U.S. Department
of agriculture. Yearbook, 1926. Washington, D.C., 1927.
p.455-458.
- Irrigation management. F.W. Hanna. Engineering news. v.67. p.290-
291. February 15, 1912. Deals with the operation, rather than
maintenance or upkeep, of large irrigation systems.
- Irrigation policies and programs in the northern Great Plains region.
S.E. Johnson. Journal of farm economics. v.18. p.543-555.
August 1936.
- Irrigation service, its organization and administration. P.M. Tottenham.
Cairo, Government press, 1927. 89p.
- Management of irrigation systems. Robert S. Stockton. Engineering
and contracting. v.41. p.141-150. January 28, 1914. Gives
opinions based on years of observation and experience in the construc-
tion, operation, and maintenance of irrigation systems.

- National policy in development of water resources. H. Hoover.
Municipal and county engineering. v.71. p.251-256. October 1926.
- National reclamation policy: economic aspects of federal reclamation.
E. Mead. American society of civil engineers. Transactions.
v.95. p.1321-1418. 1931.
- Operating problems on federal irrigation projects. G.O. Sanford.
Agricultural engineering. v.14. p.245-247. September 1933.
Achievements of United States government irrigation; some aspects
of delivery of water to landowners; sources of financing federal
irrigation projects.
- Organization of irrigation operating and maintenance force and its
training. George H. Bliss. Engineering and contracting. v.41.
p.535-537. May 6, 1914. Deals with the problems of the operat-
ing period after construction is completed.
- Permissible economic rate of irrigation development in California, 1930.
Sacramento, California state printing office, 1930. 205p.
California. Department of public works. Division of water resources.
Bulletin no.35.
- Present tendencies in water administration. G.M. Bacon. American
society of civil engineers. Transactions. v.94. p.309-325.
1930.
- Problem of securing closer relationship between agricultural develop-
ment and irrigation construction. David Weeks and C.H. West.
California. Agricultural experiment station. Bulletin no.435.
Berkeley, Cal., 1927. 99p.
- Some agricultural engineering problems of western irrigation practice.
S.H. Beckett. Agricultural engineering. v.6. p.228-229.
October, 1925. Economics of irrigation; problems of water-supply
development and water distribution on the farm; use of water for
irrigating crops, preparation of land, etc.
- State engineer and his relation to irrigation. R.P. Teele. U.S.
Department of agriculture. Office of experiment stations. Bulletin
no. 168. Washington, D.C., 1906. 99p.

EQUIPMENT AND STRUCTURES

General

- Automatic headgate. Karl F. Keeler. Michigan technic. v.27.
p.62-68. May 1914. Describes a device for automatically
regulating the flow of a stream of water which is diverted from a
reservoir or canal into a lateral ditch.

- Delivery of irrigation water. W.A. Hutchins. U.S. Department of agriculture. Technical bulletin no.47. Washington, D.C., 1928. 48p.
- Effect of an end sheet pile on the pressure distribution under a weir floor and on the exit gradient. N.K. Bose and H.L. Uppal. Lahore, Supt. govt. print. Punjab, 1936. 22p. India. Punjab irrigation research institute. Research publication. v.2, no.14.
- General theory of the gradient of pressure under a structure on permeable foundations, with applications to the evaluation of the gradient at exit for some standard cases. Lahore, Supt. govt. print. Punjab, 1937. 10p. India. Punjab irrigation research institute. Research publications. v.2, no.16.
- Home made irrigation devices. H.E. Murdock and J.R. Barker. Montana. College of agriculture and mechanic arts. Extension service. Bulletin no.60. Bozeman, Mont., 1923. 23p.
- Influence of an upstream sheet pile on the uplift pressure on a floor. N.K. Bose and H.L. Uppal. Lahore, Supt. govt. print. Punjab, 1935. 62p. India. Punjab irrigation research institute. Research publications. v.2, no.9.
- Investigation of the pressures on works on sand foundations. I. E.M. Taylor and H.L. Uppal. Lahore, Supt. govt. print. Punjab, 1934. 14p. India. Punjab irrigation research institute. Research publications. v.2, no.5.
- Investigation of the uplift pressure on a model of Bay IV, Khanki weir and the prototype. A.N. Khosla, E.M. Taylor and H.L. Uppal. Lahore, Supt. govt. print. Punjab, 1935. 8p. India. Punjab irrigation research institute. Research publications. v.2, no.10.
- Irrigation structures and implements. New Mexico. College of agriculture and mechanic arts. Circular no.92. State College, N.M., 1927. 48p.
- Materials and structures for farm distributaries. W.L. Powers. Oregon. Agricultural college. Extension service. Circular no.182. Corvallis, Ore., 1922. 5p.
- Notes on the distribution of water and maintenance of works in the basin systems of upper Egypt. J.C. Ross. Cairo, 1892. 2v.
- Observation and record of pressures below works on permeable foundations. R.B.A.N. Khosla. Simla, India, Central board of irrigation, 1934. 19p. India. Central board of irrigation. Publication no.8.
- On the electrical method of investigating the uplift pressures under dams and weirs. V.I. Vaidhiana and Gurdas Ram. Lahore, Supt. govt. print. Punjab, 1936. 5p. India. Punjab irrigation research institute. Research publications. v.5, no.4.

- Pressures under a model of Panjnad weir and under the prototype.
H.L. Uppal. Lahore, Supt. govt. print. Punjab, 1936. 6p.
India. Punjab irrigation research institute. Research publications.
v.2, no.11.
- Pressure under weirs - depressed floors with and without sheet piles.
Lahore, Supt. govt. print. Punjab, 1936. 3p. India. Punjab
irrigation research institute. Research publications. v.5, no.6.
- Protection below Khanki weir. J.P. Gunn. Lahore, Supt. govt.
print. Punjab, 1935. 9p. India. Punjab irrigation research
institute. Research publications. v.2, no.8.
- Relative efficiency of a vertical sheet pile under a flush floor.
Lahore, Supt. govt. print. Punjab, 1937. 15p. India. Punjab
irrigation research institute. Research publications. v.2, no.19.
- Report from Beesville station: Soils; climate; water supply; irriga-
tion equipment. J.H. Connell and S.A. McHenry. Texas. Agricul-
tural experiment station. Bulletin no.43. College Station, Tex.,
1897. 927-958p.
- Restoration of the ancient irrigation works on the Tigris or The re-
creation of Chaldea. Sir William Willcocks. Cairo, National
printing dept., 1903. 71p.
- Some structures and construction methods on an irrigation project in
Sacramento valley, California. Cornell civil engineer. v.20.
p.407-415. May 1912. Illustrates and describes this project
which will furnish water for 130,000 acres of land.
- Tests of spray irrigation equipment. F.E. Staebner. U.S. Department
of agriculture. Circular no.195. Washington, D.C., 1931. 29p.
- Transmission and delivery of reservoir water. G.C. Baldwin. American
society of civil engineers. Transactions. v.94. p.296-300.
1930.
- Uplift pressures under a depressed floor. N.K. Bose and H.L. Uppal.
Lahore, Supt. govt. print. Punjab, 1936. 14p. India. Punjab
irrigation research institute. Research publications. v.2, no.13.
- Water-conduit construction in the West; modern materials and construction
methods. F.C. Scobey. Civil engineering. v.5. p.569-571.
September 1935.
- Dams
- Algerian dams of placed rockfill. I. Gutmann. Engineering news record.
v.119. p.889-894. December 2, 1937.

- Arch dam design for the site of the Shoshone dam. John S. Eastwood. Engineering news. v.63. p.678-680. June 9, 1910. A criticism of the design of this dam, based on a description of H.N. Savage, and describing a proposed arch design.
- Arrowrock dam. Charles H. Paul. Journal of the Idaho society of engineers. v.2. p.27-38. June 1912. Illustrated account of the location and construction of this dam in Idaho, which will be the highest dam yet built.
- Assouan dam. Engineer. v.88. p.140. August 11, 1899. Illustrations showing the progress of the irrigation works in course of construction on the Nile, with extracts from reports of engineers resident on the works.
- Arrowrock dam, Boise irrigation project. Engineering record. v.67. p.214-215. February 22, 1913. Brief description of the highest dam in the world, now under construction in Idaho.
- Assouan dam on the Nile. Engineering. v.69. p.318-319. March 9, 1900. An illustrated description of the methods of construction, which involve great engineering difficulties.
- Austin dam. T.U. Taylor. Washington, D.C., Government printing office, 1900. 52p. U.S. Geological survey. Water-supply and irrigation paper no.40.
- Barrage de Sennar, sur le Nil Bleu et l'irrigation de la plaine de Gezira (Haute-Egypte). Genie civil. v.85. p.500-503. November 29, 1924.
- Bassano dam and irrigation works. Engineering. v.119. p.63-65. January 16, 1925. Details of construction of dam across Bow river, 83 mi. east of Calgary, by Can. Pan. Ry. co.; low-water surface of river is raised about 40 ft. by dam which is composite structure, most notable portion being concrete spillway, 720 ft. in length; most important of canal structures is Brooks aqueduct, 10,000 ft. long, with capacity of 900 sec.-ft.
- Boulder canyon project. Engineering and contracting. v.69. p.398. November 1930. Construction features of \$165,000,000 dam and reservoir, irrigation canal, and power development by U.S. Bureau of reclamation; Hoover dam will be about 727 ft. above foundation rock; power plant capacity will be 1,000,000 or 1,200,000 hp.; All-American canal will be 75 mi. long, and Coachella branch will be 115 mi. long; new town will be located about 6 mi. due west of dam site.
- Boulder canyon project. Wesley R. Nelson. U.S. Smithsonian institution. Annual report, 1935. Washington, D.C., 1936. p.429-452.

- Building Black Canyon irrigation dam in western Idaho. W. Ward.
Engineering news record. v.93. p.818-823. November 20, 1924.
Concrete dam of 184 ft. max. height built by Bur. of reclamation to
save private irrigation district; water level controlled by drum
gates; concrete proportioned by Abrams method.
- Building the Guernsey irrigation and power dam. F.F. Smith. Engineer-
ing news record. v.100. p.264-268. February 16, 1928.
- Calitzdorp dam; the first concrete storage irrigation dam in South
Africa. Engineer. v.138. p.734. December 26, 1924.
- Cellular corewalls for embankment dams. C.H. Howell. Engineering
news record. v.106. p.359, 494, 622. February 26, March 19,
April 9, 1931. New type of earth-dam corewall, developed in Mexican
projects, which prevents leakage water passing through into down
stream fill by draining it away through vertical cells; design of
rock-fill dam with cellular core-wall, Conchos irrigation project,
Mexico.
- Colorado river and its proposed development. D.W. Mead. Western
society of engineers. Journal. v.34. p.397-422. July 1929.
Drainage area and average annual discharge of tributaries of Colorado
river; irrigation in Colorado valley; water rights and water power;
silt problem; development of Colorado river delta and of Imperial
valley; Boulder canyon project; Colorado river compact; features of
proposed dam.
- Colorado river economic development of its basin. E. Mead. Engineer-
ing news record. v.104. p.240-246. February 6, 1930. U.S.
Commissioner of reclamation discusses economic development of
Colorado river basin and reasons that led to great Boulder dam project;
navigable possibilities of river; beginning of irrigation; growing
water needs; intensive study of sites; Delta and Imperial valley;
complexities of titles to water; Colorado compact; Boulder dam and
price of power; proposed power contracts; selling water.
- Comparison of western irrigation reservoirs and the new Croton dam.
Scientific american. v.94. p.530. June 30, 1906.
- Construction of Arrowrock dam. Engineering record. v.68. p.265-
267. September 6, 1913. Illustrates and describes work on this
highest masonry dam in the world. Cement is conveyed to mixer by
compressed air pipe line and concrete placed by hoppers and trough
suspended from cableway.
- Construction of multiple-arch dam in Arizona; Lake Pleasant dam.
Engineering news record. v.100. p.180-183. February 2, 1928.
- Construction of the Belle Fourche dam. O.T. Ready. Engineering record.
v.61. p.466-469. April 2, 1910. Illustrated description of
the construction of a dam in South Dakota, to store the flood waters
for use in irrigation.

- Construction of the Laguna dam, Colorado river, Arizona. Engineering news record. v.59. p.213-218. February 27, 1908. States the conditions and requirements of the Yuma valley irrigation project, and the method of building a rock-filled dam 4800 ft. long and 266 ft. wide, with three concrete core walls, practically under water.
- Controlling the Colorado. R.F. Walter. Engineering news record. v.104. p.247-253. February 6, 1930. Chief engineer of U.S. Bureau of reclamation discusses Boulder canyon project; discharge of Colorado river; flood control; irrigation and power storage; silt storage; dimensions of dam; plans for building involve earth-fill cofferdams and four diversion tunnels; outlet works; railroad from Las Vegas, Nev., will be first item of construction; total expenditure of \$165,000,000 is provided for in Boulder Canyon act.
- Damming of the Murrumbidgee river, Australia. C.O. Burge. Engineering record. v.58. p.166-167. August 8, 1908. Description of this irrigation scheme.
- Dams and hydraulics; progress in 1935. J.L. Savage. Engineering news record. v.116. p.200-202. February 6, 1936.
- Dams and weirs; an analytical and practical treatise on gravity dams and weirs; arch and buttress dams; submerged weirs; and barrages. W.G. Bligh. Chicago, American technical society, 1917. 206p.
- Dams in South Dakota, as of March 1, 1937. Preliminary report. South Dakota state planning board. Brookings, S.D., 1937. 139p. mimeographed.
- Design and construction of dams, including masonry, earth, rock-fill, timber and steel structures... Edward Wegmann. 8th edition. New York, J. Wiley and sons, inc., 1927. 740p.
- Design and construction of rolled earth dams. R.R. Proctor. New York, 1933. 16p.
- Design and construction of two new reclamation dams; the Gibson concrete-arch dam and the Echo earthfill dam, Engineering news record. v.106. p.998-1002. June 18, 1931.
- Design and construction of Wellington dam. E. Tindale. Commonwealth engineer. v.22. p.5-8. August 1, 1934. Design and construction of curved concrete-gravity overflow dam, maximum height 68 ft., length 748 ft., for Collie river irrigation project, western Australia.
- Design of dams. Frank W. Hanna and Robert C. Kennedy. 1st edition. New York, McGraw-Hill book co., inc., 1931. 456p.
- Design of dams. Irrigation. W.A. Hardenberg and Samuel Baker. Scranton, Pa., International textbook co., 1933. 115p.

- Design of the Owyhee irrigation dam. J.L. Savage. Engineering news record. v.100. p.663-667. April 26, 1928.
- Dique San Roque. R.E.Ballester, A. Suarez and C.A. Volpi. Ingenieria. v.34. p.298-320, 350-385, 394-427, 463-492. August - November 1930. Project to supply water for city of Cordoba, to minimize inundation hazards, for irrigation, and to generate hydroelectric power. Report of commission of civil engineers. Calculation of discharge of Primero river; flood flows of Primero river; flow regulation; annual rainfall in Cordoba; utilization in irrigation; hydroelectric utilization of fall and flow of Primero river. Bibliography of matters concerning dam; subcommittee report on mapping of elevations; general data and specifications, of interest to bidders on contract.
- Distribution system of Pueblo-Rocky Ford irrigation project. Engineering record. v.64. p.602-603. November 18, 1911. Illustrated description of a concrete diversion dam, wood stave pipe line and main distributing canal.
- Earth and rock-fill dam for irrigation; Pleasant valley dam, Utah. C.J. Ullrich. Engineering news record. v.100. p.864-866. May 31, 1928.
- Earth and rock fill dam with concrete core wall, Patillas irrigation project Porto Rico. Engineering and contracting. v.33. p.57-58. January 19, 1910. Drawings and explanation of the main structural features.
- Earthen dams. Samuel Fortier. Utah. Agricultural experiment station. Bulletin no.46. Logan, Utah, 1896. 56p.
- Earth dams, a study. Burr Bassell. New York, Engineering news publishing co., 1904. 70p.
- Earth dam projects. Joel D. Justin. New York, J. Wiley and sons, inc., 1932. 345p.
- Economic aspects of a salt water barrier below confluence of Sacramento and San Joaquin rivers. Sacramento, Cal., California state printing office, 1932. 450p. California. Department of public works. Division of water resources. Bulletin no.28.
- 8,000,000 kw. goal of Columbia river development; utilization of generating facilities from power, navigation, flood control and irrigation projects. Electrical west. v.72. p.16-17. February 1934.
- Engineering for masonry dams. William Pitcher Creager. 2d edition. New York, J. Wiley and sons, inc., 1929. 294p.
- Esneh barrage for irrigation in Egypt. Engineering. v.87. p.173-180. February 5, 1909.

Excavation for the Arrowrock dam, Idaho. Charles H. Paul. Engineering news record. v.70. p.93-100. July 17, 1913. General description of the work, the equipment, operations, etc.

Experiments on material for Cold Springs dam, Umatilla irrigation project, Oregon. D.C. Henry and E.G. Hopson. Engineering news. v.57. p.250-253. March 7, 1907. Outlines this project and the earth dam 3,200 ft. long, with a maximum height of 82 ft., explaining the methods of sampling and testing the materials available for its construction.

Failure of an irrigation dam. Richard R. Lyman. Engineering record. v.60. p.324-326. September 18, 1909. Illustrated account of the failure of a dam in central Utah, caused by the bottom becoming saturated and slipping.

Gezira irrigation scheme, including the Sennar dam on the Blue Nile. O.L. Prowde. Institution of civil engineers. Minutes of proceedings. v.222. p.81-120. 1926. Details of construction of Sennar dam on the Blue Nile and the canalization of 300,000 acres of Gezira plain; granite rubble masonry dam with maximum pressure of 7.03 kg. per sq. cm. on downstream side, and with reservoir empty 8.01 kg. per sq. cm. on up-stream side; length, 3025 miles; upstream reservoir has capacity of 636 million cu.m.

Great Roosevelt irrigation dam. Day Allen Willey. Scientific american. v.99. p.10-11. July 4, 1908. Illustrated description of this great undertaking which will provide water for irrigating more than a quarter of a million acres of arid land in Arizona.

Harnessing of the Colorado river. G.E.P. Smith. Pan American geologist. v.54. p.31-64. August 1930. Solution of problem is offered, with view of restoring amity and cooperation among states of southwest; review of conditions and of contentions; outline of bases for constructive policy, including phase of relations with Mexico regarding project.

Hartebeestpoort dam. Engineering. v.117. p.323-325. March 14, 1924. Construction details of concrete dam recently completed near Pretoria, S. Africa; main features of design are arch dam, and long spillway channel outside it spanned at one point by bridge carrying Pretoria-Rustenburg road.

Hartebeestpoort dam. Engineer. v.137. p.230-231. February 29, 1924. Particulars of concrete dam; contents of reservoir when full is 568 million cu. ft.; and calculated volume impounded is 9846 million cu.ft.; height of crest level of waste weir is 140 ft. above river bed, and top of solid parapet wall is 22 ft. 9 in. above top of waste weir.

Hartebeestpoort dam, Pretoria, South Africa. Engineering and contracting. v.61. p.340-342. February 1924.

Hartebeestpoort irrigation dam in South Africa. Engineering news record. v.92. p.981-982. June 5, 1924. Concrete arch dam 195 ft. high; one end in hill and other at abutment.

Heightening of the Aswan dam. Engineer. v.155. p.542-545. June 2, 1933.

Here's Boulder dam. E.L. Hampton. Industrial digest. v.8. p.13-15, 74. March 1929. Consideration of what Boulder dam development will mean to West, Nation, and world at large; enormity of project; dam when completed will permanently solve flood menace for all lower river basin, and in so doing will impound for useful purposes entire annual run-off of river, 90 percent of which is now wasted in sea; impounded water will irrigate 1,000,000 acres of arid land in Nevada, Arizona, and southern California; inland states benefit.

High multiple arch dam at Lake Pleasant, Arizona. Engineering. v.125. p.158, 159-161. February 10, 1928.

High-pressure gates in dams for water works and irrigation reviewed. D.W. Cole. Engineering news record. v.81. p.880-884. November 14, 1918. From sluice gates in Sudbury dam of Boston water-works through various stages of gate development in high dams of U.S. Reclamation service.

Hoover dam; purposes, plans and progress of construction. W.R. Young. Scientific american. v.147. p.134-138, 222-223. September - October 1932.

Hoover dam and its influence on Southwest. E. Mead. New reclamation era. v.22. p.162-165. August 1931. Non-technical outline of project and its economic significance; hazards of early construction; provision for financing.

Hoover dam on Colorado river. Engineer. v.154. p.580-583, 606-609. December 9, 16, 1932. Particulars of project.

Hoover dam project. E. Mead. Civil engineering. v.1. p.333-335, 421. January, February 1931.

Huge proportions of the new government irrigation dams. Scientific american. v.95. p.242. October 6, 1906.

L'hydraulique en Tunisie et les grands barrages reservoirs. Resume des etudes et projets. Jean Coignet. Tunis, Imprimerie centrale G. Guinle et cie., 1917. 143p.

Hydro-electric power and irrigation schemes in 1935. Engineer. v.161. p.12-14. June 3, 1936.

Indian storage reservoirs with earthen dams: being a practical treatise on their design and construction. William Lumisden Strange. 3d edition. London, G. Routledge and sons, ltd., 1928. 498p.

Irrigation and flood protection, Papago indian reservation, Arizona. Letter from the secretary of the interior, transmitting a special report prepared by superintendents of irrigation, C.R. Olberg and F.R. Schanck, on the cost of a proposed system of water development and a distributing system of water development and a distributing system for the irrigation and protection from floods of irrigable lands on the Papago indian reservation in Arizona ... Washington, D.C., U.S. Government printing office, 1913. 32p. U.S. 63d congress. Senate. Document no.973.

Irrigation and power on the North Platte river. Engineering news record. v.113. p.698-702. November 29, 1934.

Irrigation dams for small rivers. B.O. Bush. Malayan agricultural journal. v.21. p.658-663. December 1933.

Irrigation enterprises in Australia. Engineer. v.139. p.462, 465. April 24, 1925.

Irrigation water and electric power from same storage reservoir; Melones dam. Scientific american. v.136. p.328-329. May 1927.

Irrigation works construction in Mexico. R.M. Conner and A. Weiss. Engineering news record. v.104. p.101-104. January 16, 1930.

Irrigation works in the Bombay Deccan and the Bhandardara and Bhatgar dams. E.C. Snelgrove. Engineering. v.127. p.255-258, 599-600, 601, 743-745, 758, 775-778. March 1, May 17, June 14-21, 1929.

Irrigation works on the Nile. Engineer. v.89. p.480-481. May 11, 1900. Illustrated account of the progress made in the great engineering work of constructing the Assouan dam and reservoir.

Lake Mentz dam on Sundays river. Engineer. v.137. p.116-117. February 1, 1924. Scheme carried out by Sundays river irrigation board 90 miles north of Port Elizabeth, South Africa; dam consists of massive reinforced-concrete structure, at one end of which are suspended five free-roller steel sluice gates, each 30 ft. wide by 25 ft. deep.

Method and cost of constructing two dams for an irrigation works at Santa Fe, New Mexico. Ernest E. Meier. Engineering and contracting. v.38. p.552-555. November 13, 1912. Outlines the project for irrigating 10,000 acres of desert land and illustrates and describes the construction of an uncoursed rubble masonry dam 80 ft. high, and an earth and rock-fill dam with concrete core wall.

- Mission of Boulder dam fulfilled. W.R. Young. Civil engineering. v.5. p.352-356. June 1935. Expectations realized in fields of economics, water use, and recreation; 50,000 people continuously supported by wages during construction; all fear of floods removed, ample water stored for irrigation and household use, silt problem relieved, and abundance of electric power supplied.
- Modern Mexican irrigation development. A.M. Valdes. Civil engineering. v.1. p.1009-1014. August 1931.
- Muskingum flood control work; a symposium on the \$34,500,000 flood-control and water-conservation project in eastern Ohio. E.L. Winslow, jr. and others. Civil engineering. v.6. p.1-28. January 1936.
- National reclamation of arid lands. C.J. Blanchard. U.S. Smithsonian institution. Report, 1906. Washington, D.C., 1907. p.469-492.
- Nile reservoir dam at Assuan. T.H. Means. U.S. Smithsonian institution. Annual report, 1902. Washington, D.C., 1903. p.531-535.
- Nile reservoir dam at Assuan and after. William Willcocks. London, E. & F.N. Spon, ltd., 1901. 29p.
- Novel methods of building cutoff wall. Joseph Jenson. Engineering record. v.68. p.522-524. November 8, 1913. Illustrated description of work connected with irrigation in Utah; using hydraulic nozzles for excavation and pump for removing spoil in the core trench of the Piute irrigation dam.
- Observaciones de la permeabilidad en la presa de Don Martin. M. Bancalari. Irrigacion en Mexico. v.2. p.514-518. April 1931. Observation of permeability in Don Martin dam no.4, National irrigation system. Dam built to impound waters of Salado river on irrigation project of states of Coahuila and Nuevo Leon; capacity 1,390,000,000 cu.m.; length 1219 m. of which 234 m. concrete spillway and 985 m. embankment; permeability has been studied; 6 m. wide on crown and max. height 35 m.; screen analysis of samples taken from inspection trenches.
- Percolation under aprons of irrigation works; abstract. S. Leliavsky. Engineering. v.132. p.528. October 23, 1931.
- Politics of Boulder dam. S.O. Blythe. Country gentleman. v.92. p.12+ September 1927.
- Progress on the Roosevelt dam, Salt river project, U.S. Reclamation service. Chester Wason Smith. Engineering news. v.60. p.265-268. September 10, 1908. General review from the inception until the present summer.

Recent trip to Italy, Egypt, southern France and Spain. Interesting facts and personal experiences. Elmer L. Corthell. U.S. Army. Corps of engineers. Professional memoirs. v.7. p.253-306. 1915.

Report. Arizona. Joint committee on condition and affairs of Lyman dam project. Phoenix, Ariz., 1923. 32p.

Report on salt water barrier below confluence of Sacramento and San Joaquin rivers, California. Walker R. Young. Sacramento, Cal., California state printing office, 1929. 2v. California. Department of public works. Division of water resources. Bulletin no.22.

Reservoirs for irrigation, waterpower and domestic water-supply; with an account of various types of dams and the methods, plans and cost of their construction. James Dix Schuyler. 2d edition. New York, J. Wiley and sons, 1908. 573p.

Rio Guaso irrigation dam with automatic shutters. Engineering record. v.63. p.523-524. May 13, 1911. Illustrated description of work in Cuba for the irrigation of a sugar plantation.

River regulation, flood control, and water conservation and utilization. Hearings before the Committee on commerce, United States senate, sixty-fourth congress, second session, on H.R. 14777, an act to provide for the control of the floods of the Mississippi river and of the Sacramento river, California, and for other purposes, and S. 5736, a bill to promote interstate commerce, agriculture, and the general welfare by providing for the development and control of waterways and water resources, for water conservation, for flood control, prevention, and protection; for the application of flood waters to beneficial uses; and for cooperation in such work with states and other agencies, and for other purposes, together with hearings, reports and documents of preceding congresses... December 19 - 22, 1916. Washington, D.C., Government printing office, 1917. 430p.

Rockfill diversion dam with concrete core wall, Minidoka irrigation project, Idaho. P.M. Fogg. Engineering and contracting. v.39. p.412-416. April 9, 1913. Illustrated description of the dam and its construction.

Rolling dams for irrigation in Mexico. Engineering record. v.62. p.302. September 10, 1910. Illustrated detail description of an unusual type of rolling dam.

Roosevelt irrigation dam in Arizona. Scientific american. v.93. p.476. December 16, 1905. Information concerning this extensive engineering work, with illustrations showing the substantial character of the concrete work.

- Salmon river dam and irrigation project, Idaho. Engineering record. v.61. p.412-417. April 2, 1910. Illustrated detailed description of the construction of a dam to develop the reservoir site. It crosses a deep narrow canyon worn through the rock by the river. The equipment for the work is also described.
- Santiago creek dam construction features. P. Schuyler. Western construction news. v.6. p.582-586. November 10, 1931. Rolled-earth-fill dam, located in southern California, having max. height of 160 ft., with upstream face paved with concrete slab; obtaining embankment material; conveyor system for handling of materials.
- Santiago creek earth-fill dam near Orange. A. Kenpkey. Western construction news. v.6. p.576-581. November 10, 1931. Dam in southern California has no core wall but is lined on upstream face with 6 in. reinforced-concrete slab; construction set-up; geology and topography; stripping dam-site.
- Santiago creek earth-fill dam near Orange, California. Western construction news. v.6. p.63-64. February 10, 1931. Features of irrigation reservoir dam 125 ft. high projected for Serrano and Carpenter irrigation districts and estimated to cost \$725,000.
- Senator Kendrick on the Boulder dam. Producer. v.8. p.6. March 1927.
- Sennar dam and the Gezira irrigation scheme. Engineer. v.138. p.348-350. September 26, 1924. Particulars regarding construction of Sennar dam, which is being built on Blue Nile to provide water for irrigation of Gezira plain, which lies south of Khartoun, on tongue of land formed by confluence of Blue and White Niles. Total length about 9925 ft., and height from lowest point in foundations to top of parapet about 130 ft.
- Sennar dam on the Blue Nile. Engineer. v.140. p.16-18. July 3, 1925. Presents reproductions taken during regular intervals during working season, 1924-25.
- Shoshone dam, U. S. reclamation service, near Cody, Wyo. H. N. Savage. Engineering news. v.62. p.627-628. December 9, 1909. Illustrated description of a concrete dam of up-stream curve, in connection with the Shoshone irrigation project.
- Shoshone dam of the United States reclamation service. D. W. Cole. Engineering record. v.62. p.88-90. July 23, 1910. Map and illustrated detailed description of the method of constructing the highest dam in the world, on the Shoshone river, Wyoming.
- Significance of Boulder canyon project. W. R. Young. Civil engineering. v.5. p.279-283. May 1935. Political, economic and engineering considerations which led to vast undertaking for regulation, water supply and power; regulation of Colorado river; equitable division of water; bills introduced for All-American canal; Boulder

Storage of water for irrigation purposes. Samuel Fortier and F.L. Bixby.
U.S. Department of agriculture. Office of experiment stations.
Bulletin no.249. Washington, D.C., 1912. 2v.

Story of the Hoover dam. New York, Ingersoll-Rand co., 1932-35. 5v.

Ten articles on Hoover dam planning and construction. Engineering news record. v.109. p.701-728. December 15, 1932. Symposium; From Colorado river compact to closure of Black canyon; Bidding and planning for construction battle; Huge blast turns river into diversion tunnels; Permanent cofferdams to be large earth-rock fills; Colorado river board approves design of dam; Review of preliminary construction operations; Placing 300,000 yards of concrete tunnel lining; Other features of project well under way; Rapid progress revises construction schedule; Construction guided by extensive research.

236-ft. dam of Murrumbidgee irrigation project. Engineering and contracting. v.50. p.106-107. July 31, 1918. Details of work in New South Wales.

Weirs, dams and reservoirs for estate purposes. Frank Dixey. Zomba, Printed by the government printer, 1929. 12p. Nyasaland. Geological survey. Water supply paper no.3.

Wichita dam; completion of another big western irrigation project. Scientific american. v.131. p.30. July 1924.

When Boulder dam is built. E.A. Vandevanter. Sunset. v.56. p.24-27. February 1926.

Yuma irrigation dam. Day Allen Willey. Scientific american. v.99. p.293, 302-303. October 31, 1908. Describes the work for the reclamation of arid lands in the southwest, and the problems relating to it.

Zweite erhohung der staumauer bei Assuan. A. Hermann. Verein deutscher ingenieure. Zeitschrift. v.77. p.910. August 19, 1933.

Designs and estimates

Design of Khanki weir bay VIII. J.P. Gunn and H.L. Uppal. Lahore, Supt. govt. print. Punjab, 1936. 2p. India. Punjab irrigation research institute. Research publication. v.2, no.12.

Design of subdivisions and works for irrigation. J.M.S. Woore. Institution of engineers, Australia. Transactions. v.7. p.116-159, 636-652. 1926. Principles governing design of subdivisions and works for development of farms in connection with large irrigation scheme; examples and methods described being based on experience gained during 12 years on Murrumbidgee irrigation areas, New South Wales.

Irrigating plant for 625 acres. E.R. Feicht. Western engineering. v.5. p.22-26. July 1914. Describes the selection of apparatus, its erection and operation for a plant where first cost was of importance.

Note on regime diagrams for the design of canals and distributaries. G. Lacey. Roorkee, Thomas college, 1931. 11p. India. United provinces, P.W.D. irrigation branch. Technical paper no.1.

Plans of structures in use on irrigation canals in the U.S. From drawings exhibited by the Office of experiment stations at Paris in 1900 and at Buffalo in 1901. U.S. Department of agriculture. Office of experiment stations. Bulletin no.131. Washington, D.C., 1903. 51p.

Practical design of irrigation works. W.G. Bligh. 2d edition. New York, D. Van Nostrand co., 1907. 449p.

Submission of data for designs and estimates. W.H. Nalder. New reclamation era. v.19. p.104-107. July 1928. Designs to be prepared in Denver office; requirement for data; canal structures; designs prepared in field offices; dams and other large items; power developments and pumping plants; secondary project investigation reports; estimates and authorities; time required for designing work.

Machinery

Applying efficient machinery to soil drainage and irrigation. R. Brennan. Dun's international review. v.45. p.53-55. July 1925.

Combined spray and irrigation plant. J.H. Weinberger. American fruit grower. v.52. p.6-7+ February 1932.

Conservation and distribution of water for irrigation.... New York. H.R. Worthington hydraulic works, n.d. 77p.

Drainage works of the Rio Grande irrigation project. J.L. Burkholder. Engineering news record. v.83. p.543-549. September 18, 1919. Elements of design, methods of ditch construction with dragline excavators on caterpillar tractors and details of cost.

Elevating grader in irrigation work. Earth mover. v.13. p.7-12. May 1926. Details of machine that carries plow on left side of rigid and very strong steel frame; furrow is caught on belt conveyor and carried up and across to point beyond opposite side of frame where it is thrown off.

Foreign markets for irrigation machinery and equipment. Prepared in collaboration with the Bureau of reclamation of the Department of the interior from reports submitted by representatives of the Department of commerce and state and other sources. Washington, D.C. U.S. Government printing office, 1929. 156p. U.S. Bureau of foreign and domestic commerce. Industrial machinery division. Trade promotion series no.73.

Greater economy in irrigation. California cultivator. v.58. p.543.
May 20, 1922.

Harnessing the sun in the land of pyramids. R.H. Moulton. American
thresherman. v.23. p.7. February 1921.

Hauptprüfung von berechnungsapparaten 1914. Berichtersta tter: 1.
Regierungs- und geheimer baurat E. Kruger ... 2. Dr. ing. A. Nachtweh...
Berlin, Deutsche landwirtschafts-gesellschaft, 1915. 87p.

Horse-drawn fresnos construct large canal as a relief project; branch of
the All-American canal. Engineering news record. v.114. p.422-
423. March 21, 1935.

Irrigation structures and implements. New Mexico. College of agricul-
ture and mechanic arts. Extension service. Circular no.92.
State College, N.M., 1927. 48p.

Krupp large canal excavator. Engineer. v.158. p.111. August 3,
1934.

Low cost irrigation for farms. O.W. Willcox. Facts about sugar. .
v.29. p.5-6. January 1934.

Merveilles des fleuves et des ruisseaux. C.A. Millet. Paris, Hachette
et cie., 1875. 363p.

New furrower for irrigation shown in Monrovia orchard. California
citrograph. v.7. p.373. September 1922.

New machines developed for work on irrigation ditches. Engineering
news record. v.105. p.501-502. September 25, 1930.

Problem of mechanization of irrigation jobs. G.S. Evanoff. Mekh. soc.
s.kh. v.5. p.13-20. 1931.

Sluices and machinery of the Gezira irrigation scheme; Blue Nile dam
and canalization. J.R. Russell. Institution of civil engineers.
Minutes of procoodings. v.227. p.95-128. 1929. Sluices consist
of gates built up of mild steel plates and rolled joists working in
cast-iron frames built to masonry; water pressure is transmitted from
gates to frames and piers through mild-steel free rollers; main
sluices are operated by two gasoline-driven machines which travel on
tracks laid on parapets of dam.

Solving the irrigating problem with a ditching machine. Irrigation age.
v.32. p.76. March 1917.

Testing of irrigation equipment. R.H. Cates. Pacific rural press.
v.105. p.398. March 31, 1923.

Tile-trenching machinery. D.L. Yarnell. U.S. Department of agriculture. Farmers' bulletin no. 1131. Washington, D.C., 1925. 18p.

Tractor for deep irrigating furrows. D.J. Whitney. Pacific rural press. v. 103. p. 616. May 27, 1922.

Models

Model tests confirm design of Hoover dam. J.L. Savage and E.I. Houk. Engineering news record. v. 108. p. 494-499. April 7, 1932. Study of deflections and strains of 1,240 plaster-celite model under mercury loading measured with high precision, by Bureau of reclamation at University of Colorado in cooperation with Engineering foundation arch dam committee; design of dam found safe; deflections on model checked calculated deflections very closely.

Models aid in designing irrigation wasteway; New Mexico project. W.R. Barrows and A.W. Newcomer. Civil engineering. v. 4. p. 595-598. November 1934.

Similarity of motion of water through sluices and through scale models: Experiments with models of sluices of the Assuan dam. And the measurement of the discharge of the Nile through the sluices of the Assuan dam. H.E. Hurst and D.A.F. Watt. Institution of civil engineers. Minutes of the proceedings. v. 218. p. 72-180. 1924.

Reservoirs

Ancient irrigation and water-supply tanks or reservoirs of Ceylon. W.G. Bligh. Engineering news. v. 64. p. 297-302. September 22, 1910. An illustrated sketch of reservoirs constructed before the Christian era, with a brief historical review of this island and present conditions.

Assuan reservoir and Lake Moeris. Sir William Willcocks. Washington, D.C., Government printing office, 1914. 26p. U.S. 63d congress. House. Committee on rivers and harbors. Document no. 17.

Assuan reservoir and Lake Moeris. William Willcocks. Lecture delivered at a meeting of the Khedivial geographical society. Cairo, 16th January 1904, with translation in French. London, E. & F.N. Spon, ltd., 1904. 38p.

Asyut dam. Scientific american. v. 88. p. 147-148, 152, 156-157. February 28, 1903.

L'avvenire della irrigazione e i doveri dello stato in Italia. I piccoli serbatoi a corona. Federazione italiana dei consorzi agrari. Piacenza, Stabilimento tipografico Piacentino, 1907. 76p.

- Barrne Jack reservoir, New South Wales. Engineering. v.84. p.1-2.
July 5, 1907. Gives a general outline of the Barron Jack irrigation
scheme, and describes the design of the dam and weir.
- Completion of the Nile dams. J. Ward. Cassier. v.23. p.549-557.
February 1903.
- Conquest of the Nile. Review of reviews. v.21. p.477-479. April 1900.
- Condiciones geologicas de los vasos y boquillas respectivas, estudiados
para elegir el mejor vaso auxiliar en la primera unidad del sistema
nacional de riego del rio Lerma. Irrigacion en Mexico. v.2. p.488-
514. April 1931. Geological conditions of natural source reservoirs
and derivation outlets respectively, studied for selection of best aux-
iliary reservoir in the first unit of Lerma river national irrigation
system.
- Control of floods by reservoirs; an appendix to the summary report to the
legislature of 1927 on the water resources of California and a coordinat-
ed plan for their development. Sacramento, Cal., California state
printing office, 1928. 463p. California. Department of public
works. Division of engineering and irrigation. Bulletin no.14.
- Cooperacion del gobierno al desarrollo agricola. J. Cabrera y Polo.
Revista de agricultura. v.12. p.39-40. May 1931.
- Damming cloudbursts for irrigation. V.W. Killick. Illustrated world.
v.26. p.404-405. November 1916.
- Damming of the Nile. Outlook. v.67. p.844. April 13, 1901.
- Design and construction of impounding reservoirs. William Watts. Surveyor.
v.34. p.11-14. July 3, 1908. Summary of the writer's experience,
including the construction of 18 reservoirs for the water supplies of
large corporations, and also smaller ones.
- Design and construction of small reservoirs for irrigation and for stock.
W.L. Strange. Pretoria, Printed at the Government printing and station-
ery office, 1904. 23p. Transvaal, Department of irrigation and water
supply. Bulletin no.1.
- Determinazione della capacita da assegnare ai serbatori per uso irriguo.
P. Frozini. Annali dei lavori pubblici. v.67. p.683-691. August
1929. Determination of required capacity for irrigation reservoirs.
Graphical solution of storage problems in arid countries, for case of
complete utilization of flow for irrigation, as well as for case of
limited utilization, limitation being due either to other requirements,
or to insufficient capacity of reservoir site available; method is
illustrated with practical examples.

- Empire reservoir of the Bijou irrigation district, Colorado, and its eight dams. Engineering news. v.57. p.8. January 3, 1907. Map and sections, with description of the sand chutes, and general information.
- Evaporation from free water surfaces. C. Rohwer. U.S. Department of agriculture. Technical bulletin no.271. Washington, D.C., 1931. 96p.
- Farm reservoirs. Samuel Fortier. U.S. Department of agriculture. Farmers' bulletin no.828. Washington, D.C., 1917. 36p.
- Farmers' storage reservoirs, diversion dams and dikes. H.E. Murdock and B. Ferguson. Montana. College of agriculture and mechanic arts. Extension service. Bulletin no.59. Bozeman, Mont., 1923. 18p.
- Federal irrigation reservoirs as pleasure resorts. Elwood Mead, commissioner, Bureau of reclamation. Washington, D.C., U.S. Government printing office, 1928. 50p.
- Government construction of reservoirs in arid regions. H.M. Chittenden. North america. v.174. p.245-258. February 1902.
- Great sluice gates for the Nile irrigation works. Scientific american. v.85. p.228. October 12, 1901.
- High-pressure reservoir outlets: a report on Bureau of reclamation installations. J.M. Gaylord and J.L. Savage. Washington, D.C., Government printing office, 1923. 179p.
- History and construction of the Nile reservoirs. J. Ward. Cassier. v.20. p.267-282. August 1901.
- L'hydraulique en Tunisie et les grands barrages reservoirs. Resume des etudes et projets. Jean Coignet. Tunis, Imprimerie centrale G. Guinle et cie., 1917. 143p.
- Indian storage reservoirs with earthen dams: being a practical treatise on their design and construction. William Lumisden Strange. 3d edition. London, G. Routledge & sons, ltd., 1928. 498p.
- Irrigating ranches with an eye dropper. Pacific rural press. v.121. p.367. March 28, 1931.
- Irrigation from Big Thompson river. John E. Field. U.S. Department of agriculture. Office of experiment stations. Bulletin no.118. Washington, D.C., 1902. 75p.

- Irrigation from reservoirs in western Kansas and Oklahoma. Letter from the secretary of agriculture transmitting, pursuant to law, a report on irrigation from reservoirs in western Kansas and Oklahoma, prepared under supervision of Dr. Samuel Fortier. Washington, D.C., Government printing office, 1913. 54p. U.S. 62d Congress. Senate. Document no.1021.
- Irrigation of the Nile valley. Scientific american. v.87. p.182. September 20, 1902.
- Irrigation perenne et protection centre l'inondation en Egypte. Rapports de la Commission technique sur les reservoirs et note par W.E. Garstin ... Le Caire, Imprimerie nationale, 1894. 60p.
- Irrigazione e laghi artificiali della Spagna... Guiseppe Zoppi. Firenze, Tipografia di G. Barbera, 1888. 305p.
- Laghi artificiali per esclusiva utilizzazione irrigua. G. Bellincioni. Atti del Sindacato provinciale fascista ingegneri di Milano. v.10. p.55-63. February 1932. Comments on small artificial lakes to be used exclusively for irrigation purposes; old and new reservoirs located principally in central Italy, having capacities up to 5,000,000 cu.m.; operating characteristics; law and finance of small irrigation reservoirs.
- Lining of ditches and reservoirs to prevent seepage losses. Elwood Mead and B.A. Etcheverry. California. Agricultural experiment station. Bulletin no.188. Berkeley, Cal., 1907. 385-418p.
- Nachtwadoeks. J. Haringhuiszen. Waterstaats ingenieur. v.19. p.355-358, 382, 408-412. October - December, 1931. Night reservoirs. Javanese practice of storing night flow of irrigation water in small local reservoirs to be used during following day; engineering features of practice; cost data.
- New Nile reservoir. F.C. Penfield. North America. v.176. p.365-375. March 1903.
- Nile dams and reservoirs. B. Baker. Popular science. v.62. p.550-561. April 1903.
- Nile irrigation works. Scientific american. v.84. p.273-279. May 4, 1901.
- Nile reservoirs. Reports by Colin Scott Moncrieff and others. Cairo, National printing office, 1891. 71p.
- Appendices. Cairo, National printing office, 1892.
-
- 64p.

Perennial irrigation and flood protection for Egypt. Reports of the Technical commission on reservoirs, with a note by A. E. Garstin, under secretary of state, Public works department. Cairo, National printing off., 1894. 58p.

Policies with respect to reservoirs. E. Mead. New reclamation era. v.22. p.230-233. November 1931. Commissioner of Bureau of reclamation states that expansion of irrigated area depends on storage; financing irrigation reservoirs; water-right questions on Interstate streams; examples of present activities of Reclamation bureau; Hoover dam construction shows value of water; purpose of Owyhee and Ole Elum storages.

Preliminary examination of reservoir sites in Wyoming and Colorado. Letter from the secretary of War, transmitting a letter from the chief of engineers, together with a report from Captain Chittenden of a preliminary examination made by him of certain reservoir sites in the states of Wyoming and Colorado. U. S. Engineer Department. Washington, D. C., Government printing office, 1897. 110p. U. S. 55th congress. House. Document No. 141.

Preliminary reports on storage reservoirs. Lyman E. Bishop. Journal of engineering, University of Colorado. No.4. p.97-102. 1907-1908. Discusses the problem of locating a flood water reservoir for irrigation.

Prewitt reservoir project. Engineering record. v.66. p.708-711. December 28, 1912. Illustrated description of work in Colorado involving a diversion dam with a new type of movable flashboard supports and a 3 1/2 mile protected embankment.

Il problema dei laghi artificiali per utilizzazione irrigua e potabile al VI Congresso nazionale delle acque. G. Bellincioni. Ingegneria. v.6. p.705-709. October 1932. Review of papers and discussion at VI National water congress on problems of artificial reservoirs for irrigation and water supply.

Rainfall reservoirs and water supply. A. R. Binnie. New York, D. Van Nostrand co., 1913. 157p.

Regulation of the Nile. W. Willcocks. Engineering magazine. v.27. p.271-273. May 1904.

Report of the Joint committee of the Senate and Assembly dealing with the water problems of the state submitted to the Legislature of the State of California. January 18, 1929. Sacramento, Cal., California state printing office, 1929. 206p.

Report on perennial irrigation and flood protection for Egypt. W. Willcocks ... Cairo, National printing office, 1894. 313p.

Reservoir system of the Cache la Poudre valley. E. S. Nettleton. U. S. Department of agriculture. Office of experiment stations. Bulletin no.92. Washington, D. C., 1901. 48p.

Reservoirs for farm use. M. R. Lewis. U. S. Department of agriculture. Farmers' bulletin no.1703. Washington D. C., 1933. 17p.

Reservoirs for irrigation. James D. Schuyler. Washington, D. C., Government printing office, 1897. 617-740p. Extract from the 18th annual report of the U. S. Geological survey, 1896-97, part IV.

Reservoirs for irrigation, water-power, and domestic water-supply; with an account of various types of dams and the methods, plans and cost of their construction ... J. D. Schuyler. 2d edition. New York, J. Wiley and sons, 1908. 573p.

Run-off of some representative streams of the United States. M. T. Rogers and H. U. Ransom. Harvard engineering journal. v.8. p.271-287. June 1909. Gives results of a study of stream-flow and run-off in different parts of the United States.

Santa Ana investigation; flood control and conservation, December 1, 1928. Sacramento, Cal., California state printing office, 1929. 357p. California. Department of public works. Division of engineering and irrigation. Bulletin no.19.

Santa Ana river basin; a plan for flood control and conservation of waste water. Present and future importation requirements. Sources of outside supply. Salinity intrusion. Sacramento, Cal., California state printing office, 1930. 73p. California. Department of public works. Division of water resources. Bulletin no.31.

Seepage losses in irrigation systems: their economic significance. E. G. Hopson. Scientific american supplement. v.75. p.56-59. January 25, 1913.

Silting of reservoirs. T. U. Taylor. Austin, Tex., The university, 1930. 170p. Texas. University. Bulletin no.3025.

Small reservoirs in Wyoming, Montana, and South Dakota. F. C. Herrmann. U. S. Department of agriculture. Office of experiment stations. Bulletin no.179. Washington, D. C., 1907. 100p.

Some typical reservoirs in the Rocky mountain states. Elwood Mead, U. S. Department of agriculture. Yearbook, 1901. Washington, D. C., 1902. p.415-430.

- South coastal basin; a cooperative symposium of activities and plans of public agencies in Los Angeles, Orange, San Bernardino and Riverside Counties leading to conservation of local water supplies and management of underground reservoirs. Sacramento, Cal., California state printing office, 1930. 79p. California. Department of public works. Division of water resources. Bulletin No. 32.
- Spillways for reservoirs and canals. A. T. Mitchelson. U. S. Department of agriculture. Department bulletin no. 831. Washington, D. C., 1930. 40p.
- State planning. Evaporation and conduction losses from reservoirs and canals in Utah. Utah state planning board... Prepared by Henry R. Watson. Salt Lake City, 1935. 19p. mimeographed.
- Storage of water on Cache la Poudre and Big Thompson Rivers. C. E. Tait. U. S. Department of agriculture. Office of experiment stations. Bulletin No. 134. Washington, D. C., 1903. 100p.
- Storage reservoirs - the arid-land question. Speech of Hon. Francis C. Newlands... in the House of Representatives, Wednesday, January 9, 1901. Washington, D. C., Government printing office, 1901. 30p.
- Storage reservoirs on Stony Creek, California. Burt, Colo. Washington, D. C., Government printing office, 1903. 62p. U. S. Geological survey. Water supply and irrigation paper no. 86.
- Subduing the Nile. C. Roberts. World's work. v.5. p.2861-2870. December 1902.
- Sudd reservoir; or, Nature's provision of perennial irrigation and flood protection for the whole of the Nile valley. Sir William Willcocks... a lecture delivered at a meeting of the Institute of Egypt, Cairo, on the 17th February 1919. In continuation of the Sudd region of the White Nile and the harnessing of the Sudd region of the White Nile and the harnessing of its waters. Sir William Willcocks.. and Mr. John Wells. A lecture delivered at a meeting of the Sultanieh geographical society, Cairo, on the 22d November 1918.... Cairo, Printing-office of the French Institute of Archaeology. 1919. 28p.
- Surveys of sites for irrigation storage reservoirs by the U. S. Geological survey. Engineering News. v.42. p.332-333. November 23, 1899. Statement relating to water storage, proposed by F. H. Newell, of the Division of hydrography of the U. S. Geological survey.
- Tumalo irrigation storage reservoir leaked profusely and erratically. J. P. Newell. Engineering news record. v.80. p.749-741. April 18, 1918. Lessons from the history of the Tumalo irrigation project in the state of Oregon.

Typical reservoirs in the Rocky mountain states. E. Mead. U. S. Department of agriculture. Yearbook, 1901. Washington, D. C., 1902 p.415-430.

Use of small water supplies for irrigation. Samuel Fortier. U. S. Department of agriculture. Yearbook, 1907. Washington, D. C. 1908. p.409-424.

Usefulness of reservoirs to agriculture in the irrigated regions. Message from the President of the United States, transmitting... the report of the secretary of agriculture regarding the usefulness of reservoirs to agriculture in the irrigated regions of the United States. February 18, 1899. Washington, D. C., Government printing office, 1899. 14p. U. S. 55th congress. Senate. Document No. 124.

Water storage systems of Utah, present and prospective. H. S. Kleinschmidt. Journal of the Association of engineering societies. v.46. p.207-217. March 1911. Discusses the storage of water for irrigation and power, giving a summary of existing reservoir systems, and the principal possibilities.

Waterdistributie uit de Wadoek Patjal. G. C. Hardenberg. Waterstaatsingenieur. v.16. p.391-396. December 1928. Water distribution from the Patjal reservoir. Details of seasonal operation of reservoir, storing 40,000,000 cu.m., for irrigation of rice-growing district near Bodjonegoro, Java.

Weirs, dams and reservoirs for estate purposes. Frank Dixey. Zomba, Printed by the Government printer, 1929. 12p. Nyasaland. Geological survey. Water supply paper No.3.

Windmill's better half; methods for building small storage reservoirs. P. A. Ewing. Farm engineering. v.3. p.168- February 1916.

EXPERIMENTS AND RESEARCH

Annual report of irrigation and drainage investigations, 1904. R. P. Teele and others. U. S. Department of agriculture. Office of experiment stations. Experiment station record. no.158. Washington, D. C. 1905. 755p.

Arrosage superficiel et arrosage souterrain. A. Petit. Journal d'agriculture pratique. v.54. p.257-258. September 27, 1930.

Border effect in irrigated plots of Marquis wheat receiving water at different times. D. W. Robertson and D. Koonce. Journal of agricultural research. v.48. p.157-166. January 15, 1934.

Controlling the proportion of summerwood in longleaf pine. B. H. Paul and R. O. Merts. Journal of forestry. v.29. p.784-796. May 1931.

Comparison of irrigated and non-irrigated seed potatoes. F. M. Harrington. Montana. Agricultural experiment station. Bulletin no. 279. Bozeman, Mont., 1933. 11p.

Cotton irrigation experiments at Shafter. C. F. Dunshee. California cultivator. v.71. p.68. July 21, 1928.

Critical period of applying irrigation water to wheat. A. Kezer and D. W. Robertson. Journal of the American society of agronomy. v.19. p.80-116. February 1927.

Development of the upper Sacramento river, containing U. S. Reclamation service cooperative report on Iron canyon project. P. Bailey. Sacramento, Cal., California state printing office, 1927. 209p. California. Department of public works. Division of water resources. Bulletin no. 13. Bulletin is part of investigation of water resources of State; investigation comprised survey of water supplies and flood flows throughout State, determination of their characteristics, estimate of present and future needs for water; and formulation of comprehensive and coordinated plan for future development in order to insure adequate water supplies for all purposes; appendix to summary report to Legislature of 1927 on water resources of California.

Drainage of irrigated lands. Charles F. Brown. U. S. Department of agriculture. Farmers' bulletin no. 371. Washington, D. C., 1909. 52p. Information concerning methods of reclaiming irrigated lands affected by excess of water or alkali, based on work done in Utah.

Duty-of-water investigations on Coal creek, Utah. A. Fife. Utah. Agricultural experiment station. Bulletin no. 181. Logan, Utah, 1922. 22p.

Effect of crazy top disorder on cotton plants and its control by irrigation management. C. Hope and others. U. S. Department of agriculture. Technical bulletin no. 515. Washington, D. C. 1936. 43p.

Effect of different methods of irrigation on the size and color of fruit. F. L. Overley and others. Washington state horticultural association. Proceedings, 1930. Olympia, Washington, 1931. p.41-47.

Effect of irrigation on soil salts at the Gezira research farm, Wad Medani, Sudan. H. Greene and R. H. K. Peto. Journal of agricultural science. v.24. p.42-58. January 1934.

- Effect of irrigation water on vigor and vitality of seed potatoes. W. C. Edmundson. U. S. Department of Agriculture. Technical bulletin no. 216. Washington, D. C. 1930. 6p.
- Effect of the constituents of alkali, fertilizers, and soil amendments on the permeability of certain fine-textured soils under irrigation. C. W. Botkin. New Mexico. Agricultural Experiment station. Technical bulletin no. 160. State College, New Mexico., 1927. 61p.
- Effect of the frequency of irrigation on potatoes grown in Mimbres valley, New Mexico. D. W. Bloodgood. New Mexico. Agricultural Experiment station. Bulletin no. 205. State College, N. M., 1932. 27p.
- Experiences sur l'irrigation souterraine effectuees a Avignon en 1929. Bordas and Mathieu. Academie d'agriculture de France. Comptes rendus. v.16. p.115-119. January 22, 1930.
- Experimenting with irrigation in the middle west. Electrical world. v.92. p.744. October 13, 1928. Installation has been made on Brown experimental farm 2 mi. west of Gibbon, Neb.; well on which experiments are being conducted is 58 ft. deep and contains about 45ft. of water; pump which is of deep-well turbine type, is driven at 1150 r.p.m. by 10 hp. motor built into well head.
- Experiments in sub-irrigation; abstract. E. Rossi. International review of the science and practice of agriculture. n.s., v.4. p.794-798 October 1926.
- Experiments in supplemental irrigation with small water supplies at Cheyenne, Wyo., in 1909. J. H. Gordon. U. S. Department of Agriculture. Office of experiment stations. Circular no. 95. Washington, D. C., 1910. 11p.
- Experiments in the disposal of irrigated crops through the use of hops. J. A. Holden. U. S. Department of Agriculture. Department bulletin no. 488. Washington, D. C., 1917. 25p.
- Experiments in the irrigation of apple orchards. E. P. Taylor and O. J. Downing. Idaho. Agricultural Experiment station. Bulletin no. 99. Moscow, Idaho, 1917. 48p.
- Experiments in the production of crops on alkali land on the Huntley reclamation project, Montana. Dan Hansen. U. S. Department of Agriculture. Department bulletin no. 135. Washington, D. C., 1914. 19p.
- Experiments on the economical use of irrigation water in Idaho. D. H. Bark. U. S. Department of Agriculture. Department bulletin no. 339. Washington, D. C., 1916. 57p.

- Experiments with crops under fall irrigation at the Scottsbluff reclamation project experiment farm. F. Knorr. U. S. Department of agriculture. Department bulletin no.133. Washington, D. C., 1914 17p.
- Experiments with legume crops under irrigation. J. S. Welch. Idaho. Agricultural experiment station. Bulletin no.94. Moscow, Idaho, 1917. 14p.
- Flax-wheat mixtures under irrigation. C. McKee. Montana. Agricultural experiment station. Bulletin no. 202. Bozeman, Montana, 1927. 16p.
- Flow of water in sand. E. M. Taylor and H. L. Uppal. Engineer. v.106. p.107-108. August 4, 1933.
- Hydraulic laboratory for irrigation investigations, Fort Collins, Colo. V. M. Cone. Engineering news. v.70. p.662-665. October 2, 1913. Illustrated description of the laboratory at Fort Collins, Colo., and the work in progress.
- Hydrographic investigation of San Joaquin River, 1920-23. H. A. Klugel and Harrison Smitherun. Sacramento, Cal., California state printing office, 1923. 120p. California. Department of public Works. Division of water rights. Bulletin no. 1.
- Improvement and irrigation requirement of wild meadow and tule land. W. L. Powers and W. W. Johnston. Oregon. Agricultural experiment station. Bulletin no.167. Corvallis, Oregon, 1920. 44p.
- Influence de l'irrigation sur la teneur en nitrates des sols du midi. P. Boischot and G. Drouineau. Academie d'agriculture de France. Comptes rendus. v.22. p.1090-1093. December 16, 1936.
- Influence of irrigation head and length of run on the use of water for alfalfa. D. W. Bloodgood and A. S. Curry. New Mexico. Agricultural experiment station. Bulletin no.197. State College, N. M. 1931. 10p.
- Influence of irrigation on the development of the root system of spring wheat plants. N. A. Maximov and A. S. Kruzilin. Plant physiology. v.11. p.457-460. April 1936.
- Influence of irrigation upon the importance of small fruits. W. S. Brown. Oregon. Agricultural experiment station. Bulletin no.347. Corvallis, Oregon, 1936. 37p.
- Interpretation of water-requirement data; with discussion. R. S. Vaile. Journal of the American society of agronomy. v.13. p.311-317 November 1921.

- Investigation of the rise of water table in the upper Chenab canal area, Punjab. E. M. Taylor and J. K. Makhotra and M. L. Mehta. Lahore, Supt. govt. print. Punjab, 1933. 39p. India. Punjab irrigation research institute. Research publications. v.1, No.4.
- Irrigation and drainage investigations of the office of experiment stations, U. S. Department of agriculture. R. P. Teele. U. S. Department of agriculture. Office of experiment stations. Document no.723. Washington, D. C., 1904. 23p.
- Irrigation experiments. L. C. Bartels. Journal of the Department of agriculture of Victoria. v.23. p.74-77. February 1925.
- Irrigation experiments and investigations in western Oregon. A. P. Stover. U. S. Department of agriculture. Office of experiment stations. Bulletin no.226. Washington, D. C., 1910. 68p.
- Irrigation experiments at Werribee. L. C. Bartels. Journal of the Department of agriculture of Victoria. v.22. p.37-42. January 1924.
- Irrigation experiments of 1905. C. F. Eckart. Honolulu, H. T., 1905. 17p. Report of work of the Experiment station of the Hawaiian sugar planters' association, Division of agriculture and chemistry. Bulletin no.14.
- Irrigation experiments on apple-spot diseases. C. Brooks and D. F. Fisher. Journal of agricultural research. v.12. p.109-138. January 21, 1918.
- Irrigation experiment with alfalfa, potatoes, and wheat. Nevada. Agricultural experiment station. Report, 1917. Reno, Nev., 1918. p.27-39.
- Irrigation experiments with lucerne. H. W. Turpin. Farming in South Africa. v.6. p.383-385. December 1931.
- Irrigation experiments with peaches in California. A. H. Hendrickson and F. J. Veihmeyer. California. Agricultural experiment station. Bulletin no.479. Berkeley, Cal., 1929. 56p.
- Irrigation experiments with potatoes. F. S. Harris and D. W. Pittman. Utah. Agricultural experiment station. Bulletin no.187. Logan, Utah. 1923. 15p.
- Irrigation experiments with prunes. A. H. Hendrickson and F. J. Veihmeyer. California. Agricultural experiment station. Bulletin no.573. Berkeley, Cal., 1934. 44p.
- Irrigation experiments with sugar beets. F. S. Harris and D. W. Pittman. Utah. Agricultural experiment station. Bulletin no.186. Logan, Utah. 1923. 19p.

- Irrigation experiments with wheat. A. T. Bartel and C. Hobart. Arizona. Agricultural experiment station. Bulletin no.151. Tucson, Ariz.; 1935. 355-388p.
- Irrigation field laboratory at Denver, Colorado. R. B. Sleight.. Engineering news. v.76. p.1080-1082. December 7, 1916.
- Irrigation hydraulics. American society civil engineers. Transactions. v.99 p.1375-1382. 1934. Final report of special committee of American society of civil engineers, including review of research and literature on evaporation from reservoir and soils, canal conversions, water movement and pressure under dams, silt problem, siphon spillway, chutes and drops, scouring below dams, irrigation deliveries, lateral flow of spillways, permissible canal velocities, and fishways and fish screens.
- Irrigation in alternate furrows. C. A. Taylor. California citrograph. v.19. p.119. March 1934.
- Irrigation in Canterbury. R. J. James. New Zealand journal of science and technology. v.15. p.280-305. January 1934. Result of experiments conducted in Canterbury, New Zealand, in autumn 1933 to test feasibility of irrigation for province.
- Irrigation in Canterbury. A. H. Flay. New Zealand journal of science and technology. v.16. p.185-205. January 1935. Report on progress and results of investigations of agricultural value of irrigation made at Seafield demonstration and experiment station, Mid-Canterbury; permanent-pasture treatment and results.
- Irrigation in central Otago. R. B. Tennent and J. R. Marks. Journal of agriculture of New Zealand. v.23. p.344-352. December 1921.
- Irrigation investigations. Journal of the Department of agriculture of Victoria. v.32. p.567-570. November 1934.
- Irrigation investigations: Factors influencing evaporation and transpiration. J. A. Widtsoe. Utah. Agricultural experiment station. Bulletin no.105. Logan, Utah, 1909. 64p.
- Irrigation investigations at State research farm, Terribee. Journal of the Department of agriculture of Victoria. v.28. p.551-564. September 1930.
- Irrigation investigations in Alberta. Agricultural gazette of Canada. v.10. p.148-153. March 1923.
- Irrigation investigations in California. F. Adams. Pacific rural press. v.119. p.401. March 29, 1930.

- Irrigation investigations in cooperation with Department of agriculture, Washington, D. C. Elias Nelson. Idaho. Agricultural experiment station. Bulletin no.58. Moscow, Idaho, 1907. 46p.
- Irrigation investigations in 1901. J. A. Widtsee and others. Utah. Agricultural experiment station. Bulletin no.80. Logan, Utah, 1902. 67-199p.
- Irrigation investigations in Texas. R. G. Hemphill. Agricultural engineering. v.7. p.56. February 1926.
- Irrigation investigations in young grapefruit orchards on the Yuma Mesa. G. E. P. Smith and others. Arizona. Agricultural experiment stations. Technical bulletin no.37. Tucson, Arizona, 1931 413-591p.
- Irrigation investigations on the North Platte River in 1904. B. P. Fleming Wyoming. Agricultural experiment station. Bulletin no.66. Laramie, Wyoming, 1905. 24p.
- Irrigation investigations on the peat lands in the Sacramento-San Joaquin delta. L. N. Brown. Agricultural engineering. v.10. p.249-252. August 1929. Geology and reclamation of delta islands; irrigation system; crops grown; salt-water encroachment; irrigation water field measurements for potatoes, corn, celery, sugar beets, onions, asparagus, etc.
- Irrigation investigations with field crops at Davis, and at Delhi, California, 1909-1925. S. H. Beckett and M. R. Huberty. California. Agricultural experiment station. Bulletin no. 450. Berkeley, Cal., 1928. 24p.
- Irrigation lessons from work of association laboratory. D. Waynick. California citrograph. v.8. p.348. August 1923.
- Irrigation of alfalfa. W. L. Powers and W. W. Johnston. Oregon. Agricultural experiment station. Bulletin no.189. Corvallis, Oregon, 1922. 36p.
- Irrigation of barley. F. S. Harris and D. W. Pittman. Utah. Agricultural experiment station. Bulletin no. 178. Logan, Utah, 1922. 19p.
- Irrigation of cantaloupes; summary in French, W. M. Fleming. Scientific agriculture. v.16. p.634-643. August 1936.
- Irrigation of cotton. J. C. Marr and R. G. Hemphill. U. S., Department of Agriculture. Technical bulletin no.72. Washington, D. C. 1928 37p.
- Irrigation of sugar cane. Planter. v.78. p.241. March 26, 1927.

- Irrigated pasture investigations; experimental technique. E. T. Beruldsen, and A. Morgan. Journal of the Department of agriculture of Victoria. v.31. p.251-257. May 1933.
- Irrigated pastures; rate and frequency of watering tests. L. C. Bartels and others. Journal of the Department of Agriculture of Victoria. v.30. p.187-205. April 1932.
- Irrigated pastures for dairy cattle. I. R. Jones. Heard's dairymen. v.75. p.718. August 10, 1930.
- Irrigation pot experiment. L. Lord and W. N. Fernando. Tropical agriculture. v.76. p.329-331. June 1931.
- Irrigation practice: Report of four years' investigation at the Gooding Substation. J. S. Welch. Idaho. Agricultural experiment station. Bulletin No.78. Moscow, Idaho, 1914. 27p.
- Irrigation principles shown by citrus studies. W. C. Tescho. Pacific 'rural press'. v.125. p.215. March 25, 1933.
- Irrigation water and sugar beets. O. W. Israelson and L. M. Winson. Sugar. v.24. p.673-675. December 1922.
- Kybybolite experimental farm irrigation experiments, 1923-24. L. J. Cook. Journal of the Department of agriculture of South Australia. v.28. p.333-334. November 1924.
- Kybybolite experimental farm irrigation experiments, 1924-25. L. J. Cook. Journal of the Department of agriculture of South Australia. v.29. p.717-721. March 1926.
- Kybybolite experimental farm: irrigation experiments, 1925-26. L. J. Cook. Journal of the Department of agriculture of South Australia. v.30. p.840. March 1927.
- Kybybolite experimental farm: irrigation experiments, 1926-27. L. J. Cook. Journal of the Department of agriculture of South Australia. v.31. p.857-862. April 1928.
- Lettuce irrigation studies. H. C. Schwalen and M. F. Wharton. Arizona. Agricultural experiment station. Bulletin No.133. Tucson, Arizona, 1930. 463-517p.
- Lucerne irrigation experiments. W. S. H. Cleghorne and D. Moss. Farming in South Africa. v.4. p.278. September 1929.
- Movement of salt (alkali) in lettuce beds under irrigation. M. F. Wharton and W. T. McGeorge. American Society of Horticultural sciences. Proceedings, 1935. p.548-551. 1936.

Net duty of water in Sevier valley. O. W. Israelson and L. M. Vinson.
Utah. Agricultural experiment station. Bulletin no.182. Logan,
Utah, 1922. 36p.

Note on some preliminary experiments for studying crop irrigation. J. B.
Knight. Agricultural journal of India. v.15. p.574-577.
September 1920.

Organization, work and publications of irrigation investigations. U. S.
Department of agriculture. Office of experiment stations. Document
no. 1079. Washington, D. C., 1908. 11p.

Organization, work and publications of irrigation investigations. U. S.
Department of agriculture. Office of experiment stations. Circular
no.87. Washington, D. C., 1909. 12p.

Organization, work and publications of irrigation investigations. U. S.
Department of agriculture. Office of experiment stations. Document
no. 1188. Washington, D. C., 1909. 12p.

Organization, work and publications of irrigation investigations. U. S.
Department of agriculture. Office of experiment stations. Document
no.1180. Washington, D. C., 1909. 5p.

Planting of clover and grass under irrigation. M. Henrici. Farming in
South Africa. v.6. p.446. January 1932.

Potatoes in irrigated rotations. D. A. Savage. Montana. Agricultural
experiment stations. Bulletin no.263. Bozeman, Montana, 1932.
36p.

Preliminary report of cooperative irrigation investigations in Oregon on
the economical use of irrigation water. W. L. Powers. Oregon.
Agricultural experiment station. Bulletin no.140. Corvallis,
Oregon, 1917. 79p.

Progress report of cooperative irrigation experiments at California
university farm, Davis, California, 1909-1912. S. H. Beckett. U. S.
Department of agriculture. Department bulletin no. 10.
Washington, D. C., 1913. 21p.

Progress report of cooperative irrigation investigations in California.
S. Fortier. U. S. Department of Agriculture. Office of experiment
stations. Circular no.59. Washington, D. C., 1904. 23p.

Progress report of cooperative irrigation investigations in California,
1912-1914. Frank Adams... Sacramento, Cal., California state
printing office, 1915. 74p. California. Engineering department.
Bulletin no.1.

- Progress report of studies on fruit tree irrigation; soil moisture studies.
C. A. Larson. Washington. State horticultural association.
Proceedings, 1931. p.125-130. Olympia, Wash., 1932.
- Progress report of studies on fruit tree irrigation; tree and fruit responses. L. L. Claypool. Washington. State horticultural association.
Proceedings, 1931. p.131-136. Olympia, Wash., 1932.
- Progress report on experiments in supplemental irrigation with small water supplies at Cheyenne and New castle, Wyo., 1905-1908. O. W. Bryant.
U. S. Department of agriculture. Office of experiment stations.
Circular no. 92. Washington, D. C., 1910. 51p.
- Progress report on irrigation experiments in Willamette valley, Oregon.
A. P. Stover. U. S. Department of agriculture. Office of experiment stations. Circular no. 78. Washington, D. C., 1908. 25p.
- Pump irrigation at the North Platte experimental substation. H. E. Weakly.
Nebraska. Agricultural experiment station. Bulletin no. 301.
Lincoln, Nebraska, 1936. 12p.
- Rate of infiltration of water into soil. M. R. Lewis and E. H. Neal.
Agricultural engineering. v.9. p.147-148. May 1928.
- Rates of seeding wheat and other cereals with irrigation. R. E. Hutchinson.
American society of agronomy. Journal. v.28. p.699-703.
September 1936.
- Relation of crop yields to quantity of irrigation water in southwestern Kansas. G. S. Knapp. Kansas. Agricultural experiment station.
Bulletin no. 228. Manhattan, Kansas, 1922. 29p.
- Report of irrigation investigations for 1900. Elwood Mead and others.
U. S. Department of agriculture. Office of experiment stations.
Bulletin no. 104. Washington, D. C., 1902. 334p.
- Report of irrigation investigations for 1902. L. R. Morgan and others.
U. S. Department of agriculture. Office of experiment stations.
Bulletin no. 133. Washington, D. C., 1903. 266p.
- Report of irrigation investigations, Humboldt river valley, Nevada.
J. D. Stannard. Nevada. Agricultural experiment station. Bulletin no. 54. Reno, Nevada, 1901. 91p.
- Report of irrigation investigations in California. Elwood Mead and others.
U. S. Department of agriculture. Office of experiment stations.
Bulletin no. 100. Washington, D. C., 1901. 411p.

Report of irrigation investigations in Utah. Elwood Mead and others.
U. S. Department of Agriculture. Office of experiment stations.
Bulletin no. 124. Washington, D. C., 1903. 330p.

Report on an irrigation experiment at the Ohio orchard company. O. E.
Robey. Hoosier horticulture. v.16. p.124-125. 1934.

Report on irrigation and drainage investigations during 1905-1906.
W. W. McLaughlin. Utah. Agricultural Experiment station. Bulletin
no.99. Logan, Utah, 1906. 49-126p.

Report on irrigation investigations in humid sections of the United States
in 1903. E. B. Voorhees and others. U. S. Department of Agriculture.
Office of experiment stations. Bulletin no. 148. Washington, D. C.,
1904. 45p.

Reports of experiments in the department of physics and engineering:
Irrigation and meteorology. Elwood Mead. Colorado. Agricultural
experiment station. Bulletin no.1. Fort Collins, Colo., 1887. 12p.

Report on Soda lakes investigation, Truckee-Carson Project, near Fallon,
Nevada. Charles H. Lee and W. O. Clark. Washington, D. C.,
Government printing office, 1916. 657-706p.

Residual effects of different irrigation treatments on the crops grown
the succeeding year. D. W. Robertson and A. Kezer. American society
of agronomy. Journal. v.19. p.923-943. October 1927.

Results of growing sugar beets in the irrigated rotations at the U. S.
experimental farm, Newell, S. D. B. Aune. Louisiana planter.
v.73. p.419. November 22, 1924.

Results of irrigation treatments on Acacia cotton grown in the Mesilla
valley, New Mexico. A. S. Curry. New Mexico. Agricultural ex-
periment stations. Bulletin no.220. State College, N. M., 1934.
43p.

Results of Irish potato experiments in the Bluewater, New Mexico, irrigation
district. F. Garcia and S. C. Young. New Mexico. Agricultural
experiment station. Bulletin no.218. State College, N. M., 1934.
28p.

Right way to irrigate: Results of 1901. J. A. Widtsoe and W. W. Mc-
Laughlin. Utah. Agricultural experiment station. Bulletin no. 86.
Logan, Utah, 1903. 55-101p.

Seasonal water requirements of Marquis wheat. W. H. Snelson. Scientific
agriculture. v.6. p.243-249. March 1926.

- Second progress report of cooperative irrigation investigations in California. Frank Adams. U. S. Department of agriculture. Office of experiment stations. Circular no. 108. Washington, D. C., 1911. 39p.
- Soil alkali investigations at Tresco. F. M. Read. Journal of the Department of agriculture of Victoria. v.28. p.65-90. February. 1930.
- Soil moisture and irrigation investigations in eastern apple orchards. J. R. Magness and others. U. S. Department of agriculture. Technical bulletin no. 491. Washington, D. C., 1935. 36p.
- Some facts concerning the productivity of irrigated seed potatoes. H. O. Werner. Potato association of America. Proceedings, 1930. p.120-132. East Lansing, Michigan, 1931.
- Studies in lettuce seedbed irrigation under high temperature conditions. M. F. Wharton and C. Hobart. Arizona. Agricultural experiment station. Technical bulletin no.33. Tucson, Arizona. 1931. 283-303p.
- Studies in time and rate of irrigating potatoes in Colorado. W. C. Edmundson. U. S. Department of agriculture. Technical bulletin no. 118. Washington, D. C., 1929. 21p.
- Studies of irrigation methods for sugar beets in northern Colorado. H. E. Brewbaker. American society of agronomy. Journal. v.26. p.222-231. March 1934.
- Sugar beet irrigation studies. H. E. Brewbaker. Facts about sugar. v.28. p.93-94. February 1933.
- Summary of researches by Messrs. Muntz and Laine on the control of irrigation according to the physical properties of soils. H. Hitier. International review of the science and practice of agriculture. v.8. p.974-978. July 1917.
- Summer irrigation of Pima cotton. R. D. Martin and H. F. Loomis. Journal of agricultural research. v.23. p.927-946. March 24, 1923.
- Sur les variations de la somme $N + P^{205} + K^{20}$ pour 100 de matiere seche de la feuille d'une plante cultivee. Academie d'agriculture de France. Comptes rendus. v.21. p.85-92. January 16, 1935.
- System einer automatischen bodenbewasserung. V. G. Kornev. International congress of soil science. Proceedings, 2d. v.6. p.164-166. 1932.
- Transpiration as a factor in irrigation practice. F. H. Bosman and P. J. S. Coetzee. Farming in South Africa. v.10. p.381. September 1935.

- Transpiration as a factor in irrigation practice. H. W. Turpin. Farming in South Africa. v.8. p.9-11. January 1933.
- Twenty-eight years of irrigation experiments near Logan, Utah, 1902-1929, inclusive. D. W. Pittman and G. Stewart. Utah. Agricultural experiment station. Bulletin no.219. Logan, Utah, 1930. 15p.
- Twenty-five years of supplemental irrigation investigations in Willamette valley. W. L. Powers. Oregon. Agricultural experiment station. Bulletin no. 302. Corvallis, Oregon, 1932. 28p.
- Use of evaporation records in irrigation experiments with truck crops. E. Mortensen and L. R. Hawthorn. American society of horticultural science. Proceedings, 1933. p.466-469. 1934.
- Use of irrigation water on farm crops. A. E. Palmer. Canada. Department of agriculture. Bulletin no.125. Ottawa, Canada, 1929. 5lp.
- Water in relation to plant-growth. F. H. Bosman. Farming in South Africa. v.11. p.233-235. June 1936.
- Watering and spacing experiments with Egyptian cotton. J. Templeton. Egypt. Ministry of agriculture. Bulletin no.112. Cairo, 1932. 7p.
- Watering lucerne. L. C. Bartels. Journal of the Department of agriculture of Victoria. v.24. p.710-715. December 1926.
- What our irrigation experiments have taught us. J. F. Jarrell. Louisiana planter. v.72. p.474. June 14, 1924.
- What the Department of Agriculture is doing for irrigation. Elwood Mead. U. S. Department of agriculture. Office of experiment stations. Circular no.48. Washington, D. C. 1902. 4p.
- Work of the Office of experiment stations in irrigation and drainage. U. S. Department of agriculture. Office of experiment stations. Circular no.63. Washington, D. C., 1905. 3lp.

FAILURES.

- Break interrupts irrigation. Engineering record. v.70. p.69-70. July 18, 1914. Describes failure of reservoir-gate wing wall caused by seepage at Turlock, California.
- Rehabilitation of irrigation districts. W. W. McLaughlin. Agricultural engineering. v.11. p.116-118. March 1930. Discussion of several aspects of rehabilitation of irrigation districts; causes of failures, remedies.

Rehabilitation of irrigation districts. W. W. McLaughlin. American Society of agricultural engineers. Transactions. v.24. p.18-20. St. Joseph, Missouri, 1930.

FINANCE.

Accounting for irrigation companies. C. D. Turner. Journal of accountancy. v.45. p.175-184. March 1928. Directors of irrigation company are farmers not very familiar with accounting terms, and therefore technical terminology must be set aside to some degree and language used that will be clear to those who are not by any means accountants.

Bondholders' reorganization plans for an irrigation district. J. B. Geijsbeed. Journal of accountancy. v.18. p.30-37. July 1914. Points out the defects of western irrigation bonds and discusses how they may be remedied.

California district irrigation bonds. E. F. Adams. Sunset. v.27. p.324-327. September 1911.

California irrigation and reclamation bonds hard hit. T. H. Means. Engineering news record. v.108. p.862. June 16, 1932.

California irrigation districts to get aid from federal loans. Engineering news record. v.114. p.586-587. April 25, 1935. More than one-third districts have applied for RFC aid; of outstanding bonds, 70 per cent are in default; total area of 90 districts is 2,200,080 acres.

Commercial irrigation companies. W. A. Hutchins. U. S. Department of agriculture. Technical bulletin no.177. Washington, D. C., 1930. 40p. Conclusions as to present usefulness of commercial companies as means of irrigation development, as permanent irrigation-utility investment, and as means of best serving interests of water users; classification of commercial companies; contribution of commercial enterprises to irrigation development; why commercial company investments have been generally unprofitable; internal features of irrigation utilities.

Construction in the west; Alcova and economic questions. F. E. Schmitt. Engineering news record. v.113. p.73-74. July 19, 1934.

Cooperation build an empire; work of the Salt river valley water users' association. T. A. Hayden. Nation's business. v.17. p.66+ March 1929.

Correct accounting principles in connection with the payment of construction costs on federal irrigation projects. L. H. Hauter. Journal of farm economics. v.14. p.687-690. October 1932.

- Courting coy millins for water development. R. E. Hodges. Pacific rural press. v.100. p.628. November 13, 1920.
- Denver secures PWA loan for water diversion. Engineering news record. v.113. p.730-731. December 6, 1934.
- Economic limits of cost of water for irrigation, Carlsbad project, New Mexico. R. P. Teele and Paul A. Ewing. A preliminary report. Washington, D. C., 1926. 20p. mimeographed. Issued by Bureaus of agricultural economics and public roads.
- Economic limits of cost of water for irrigation: several ditches in Dawson county, Nebraska. R. P. Teele and Paul A. Ewing. A preliminary report. Washington, D. C., 1926. 30p. mimeographed.
- Economic limits of cost of water for irrigation; Twin Falls canal company, Idaho. R. P. Teele and Paul A. Ewing. A preliminary report. Washington, D. C., 1925. 34p. mimeographed.
- Engineering factors in irrigated farm appraisals. J. T. Whistler. Engineering news record. v.84. p.1100. June 3, 1920.
- Extending time of construction payments Rio Grande federal irrigation projects, New Mexico - Texas. Hearings before the Committee on irrigation and reclamation, U. S. Senate, 70th Congress, 1st session on S.4167, a bill extending the time of construction payments on the Rio Grande federal irrigation project, New Mexico - Texas. April 26, 1928. Washington, D. C., U. S. Government printing office, 1928. 44p.
- Farm accountancy in the Punjab (India) from 1927-28 to 1932-33. J. Deslarzes. International review of agriculture. v.27. p.357E - 364E. November 1936.
- Federal irrigation appropriations for 1927-28. Engineering and contracting. v.66. p.176. April 1927.
- Federal subsidy in land reclamation. R. P. Teele. Journal of land and public utility economics. v.3. p.337-342. November 1927.
- Financial and general data pertaining to irrigation, reclamation and other public districts in California. Prepared under the direction of California irrigation and reclamation, financing and refinancing commission. Sacramento, Cal., California state printing office, 1931. 255p. California. Department of public works. Division of water resources. Bulletin no.37.
- Financial rehabilitation of irrigation and drainage districts. G. E. P. Smith. Arizona. Agricultural experiment station. Bulletin no.144. Tucson, Arizona, 1933. 42p.

- Financial settlements of defaulting irrigation enterprises. W. L. Hutchins. U. S. Department of agriculture. Circular no.72. Washington, D. C., 1929. 45p.
- Financiamiento de las obras de riego. U. Mena. Anales del instituto de ingenieros de Chile. v.28. p.237-249. May 1928. Financing of irrigation works. Discusses need of some way of financing desirable irrigation projects in Chile; study of various systems; financing methods employed in other countries; data to be considered in financing irrigation works in Chile.
- Financiamiento de obras de riego. C. Hoerning. Anales de instituto de ingenieros de Chile. v.28. p.345-356. July 1928. Financing irrigation works. Discussion of practice in other countries; interest and amortization; mathematical study of two hypothetical cases; conclusion is drawn that Government should undertake execution and finance of large projects; water users should be allowed minimum of 30 years in which to have paid cost of works.
- Financing of irrigation developments by private capital. R. E. Shepherd. American society of civil engineers. Transactions. v.90. p.710-729. 1927. Conclusions based on experience in solving problems of Twin Falls north side project which is a privately financed enterprise.
- Financing of non-governmental irrigation enterprises. R. P. Teele. Journal of land and public utility economics. v.2. p.427-440. October 1926.
- Fund for reclamation of arid lands. Message from the President of the United States transmitting a report of the Board of army engineers to the reclamation fund. Washington, D. C., Government printing Office, 1911. 197p. U. S. 61st congress. House. Document no.1262.
- Government aid in support of the Payette-Boise irrigation project. Letter from the secretary of the interior, transmitting in response to the resolution of the Senate of March 31, 1904, a copy of the proceedings of the Committee on organization of the landowners of the Boise and Payette Valleys, Idaho... Washington, D. C., Government printing office, 1904. 56p. U. S. 58th congress. Senate. Document no.247.
- Government aid to irrigation in Chile. C. Hoerning. Pan American magazine. v.30. p.85-90. December 1919.
- Government aid to irrigation in the United States and in Australia. Elwood Mead. Engineering news. v.72. p.234-236. July 30, 1914. An argument for state aid.

- How reclamation projects may be financed and constructed. W. R. King.
Irrigation age. v.32. p. 101-105. May 1917.
- Hydro power provides revenue for irrigation works. H. A. Brown.
Power. v.74. p.663-665. November 10, 1931.
- Irrigation accounting, its essentials and advantages. N. E. Webster, Jr.
Engineering news. v.64. p.369.
October 6, 1910. A study of the phases which are common to all
irrigation projects and should be shown in the accounts.
- Irrigation bonds; facts regarding their issue and their security.
Frederick Lownhaupt. New York, Moody's Magazine, 1910. 15p.
- Irrigation bonds will have state and nation back of them. Irrigation
age. v.31. p.53-54. February 1916.
- Irrigation district bonds. E. N. Pearson, Jr. Sunset. v.27.
p.97. December 1916.
- Irrigation districts, their organization operation and financing.
W. A. Hutchins. U. S. Department of agriculture. Technical bulletin
no.254. Washington, D. C., 1931. 93p.
- Irrigation finance. Norman E. Webster. Chicago, Ill., 1911. 8p.
- Irrigation finance. N. E. Webster, Jr. Engineering record. v.64.
p.765-766. December 30, 1911. Considers
requirements for success, describes general methods of financing
irrigation projects, and gives a suggested method.
- Irrigation securities and the investor. E. G. Hopson. Review of re-
views. v.42. p.90-92. July 1910.
- Loans for the relief of drainage and irrigation districts. U. S. House
Committee on irrigation and reclamation. Report (To accompany H.R.
4650.) Washington, D. C., U. S. Government printing office, 1932.
10p. U. S. 72d Congress. House. Report No.37.
- Making high-cost irrigation feasible; abstract with discussion. E. Mead.
Engineering news. v.95. p.104-105. July 16, 1925.
- Moratorium for water users. Hearings before the Committee on irrigation
and reclamation, U. S. Senate, 72d Congress, 1st session on S.2152, a
bill to authorize the secretary of the interior to grant a moratorium on
payment of construction charges on reclamation projects, and on pay-
ments under Warren Act contracts, and to defer charges past due and
to make the necessary regulations to give effect to this act, and S.
2163, a bill for the temporary relief of water users on irrigation pro-
jects constructed and operated under the reclamation law. January 25,
26, and 27, 1932. Washington, D. C., U. S. Government printing office,
1932. 145p.

Moratorium for water users. Hearings...Senate committee on irrigation and reclamation, 72d congress, 2d session on S.5135, S.5236, S.5269, S.5332, and H.R. 13854. January 11, 1933. Washington, D. C., Government printing office, 1933. 63p.

Moratorium for water users. Hearings... House Committee on irrigation and reclamation, 73d congress, 2d session, on H.R. 7490. February 7, 1934. Washington, D. C., Government printing office, 1934. 23p.

Mutual irrigation companies. W. A. Hutchins. U. S. Department of agriculture. Technical bulletin no.82. Washington, D. C., 1929. 50p.

Mutual irrigation companies in Utah. W. A. Hutchins. Utah. Agricultural experiment station. Bulletin no.199. Logan, Utah, 1927. 51p.

Operation and financing of irrigation districts of U. S. present grave problems. C. C. Wakefield. Hydraulic engineering. v.5. p.36-38. September 1929. Author quotes from investment bankers who point out economic and legal troubles involved and draws attention to fact that commission has been created in California to investigate conditions and make recommendations.

Pan-American Congress for irrigation aid. Irrigation age. v.31. p.59. February 1916.

Permissible annual charges for irrigation water in upper San Joaquin valley 1930. Sacramento, Cal., California state printing office, 1930. 89p. California. Department of public works. Division of water resources. Bulletin no.34.

Plus-value de taxe d'arrosage. Journal d'agriculture pratique. v.41. p.77-78. January 26, 1924.

Procedure for securing state approval of formation of irrigation districts; issuance of bonds by irrigation districts; expenditure of construction funds by irrigation districts; construction of dams before State department of public works, Division of engineering and irrigation and California bond certification commission. Sacramento, Cal., California state printing office, 1922. 14p. California. Department of public works. Division of engineering and irrigation. Bulletin no.2.

Reclamation bonds. Hearings before the Committee on ways and means of the House of Representatives, 61st Congress, 2d session on H. R. 18398, H. R. 19079, H. R. 21893, and S. 5705. February 5, March 8, 10, 11, 14, 15, 17, 28, 30, 1910. Washington, D. C., Government printing office, 1910. 265p.

- Reclamation fund advances. Hearings before the Committee on ways and means. House of representatives on H.R. 7754, a bill providing for advances to the reclamation fund. September 18, 1919. Washington, D. C., Government printing office, 1919. 37p.
- Reclamation fund bond issue. Hearings before the Committee on ways and means, House of representatives. January 20, 1920. Washington, D. C., Government printing office, 1920. 30p.
- Reclamation, irrigation and finance. G. E. Anderson. Barron's. v.10. p.11.+ September 1, 1930.
- Reclamation policy held sound in committee report; with cost data. Engineering news record. v.114. p.167-169. January 31, 1935.
- Reclamation problems analyzed in economic study. Engineering news record. v.105. p.175. July 31, 1930.
- Relief of drainage and irrigation districts by the federal government. Hearings... Washington, D. C., Government printing office, 1932. 24p.
- Report of I. B. A. irrigation securities committee. 1924-1930. Commercial and financial chronicle. v.119. p.1464-1465. September 27, 1924. v.121. p.2947-2948. December 19, 1925. v.123. p.2090-2092. October 23, 1926. v.125. p.2089-2091. October 15, 1927. v.127. p.2472-2473. November 3, 1928. v.129. p.2766-2768. November 2, 1929. v.131. p.2772-2773. November 1, 1930.
- Securing settlers for private irrigation projects. H. G. Shedd. Pan American scientific congress. Proceedings, 1915. v.3. p.518-524. 1917.
- Sistema de contabilidad de costos empleado por la Comision nacional de irrigacion. Ingenieria. v.2. p.404-407, 413. September 1928. System of cost accounting used by the National irrigation commission. Detailed description of classification of accounts covering great variety of construction work now under way.
- Some phases of irrigation finance. D. C. Henny. American society of civil engineers. Transactions. v.92. p.541-581. 1928. Increase of irrigated area will and should be slow when and where crop prices do not render farming profitable; private enterprise will continue to bring about health irrigation expansion on small scale in many localities as soon as crop prices become generally profitable; irrigation districts will continue to play large part in financing of improvements of existing profits and, to some extent, in construction of small new projects under especially favored conditions irrigation-district method is not well adapted to reclamation of large areas of desert land.

- State aid for settlers on irrigation developments. Elwood Mead.
Engineering record. v.39. p.668-669. June 13, 1914.
Explains plan of loans and partial payments as practiced in Australia.
- State aid to irrigation and swamp land reclamation projects. C. E. Grunsky.
Pan American scientific congress. Proceedings, 1915. v.3. p.835-840.
1917.
- State and federal co-operation in irrigation work. E. G. Hobson. Engineer-
ing record. v.68. p.685-686. December 20, 1913. Explains
how \$100,000 jointly subscribed in Oregon, is to be spent in order to
realize the fullest benefit.
- Status of land and capital in the Elephant Butte irrigation district.
A. L. Walker and A. S. Curry. Journal of land and public util-
ities. v.4. p.75-84. February 1928.
- Undertakings without precedent; group of federal public works projects now
under construction. Engineering news record. v.113. p.675-
707. November 29, 1934.
- Western irrigation district successfully refinanced. W. Durbrow.
Engineering news record. v.110. p.312-314. March 9, 1933.
- What every buyer of irrigation bonds should know. C. M. Keys. World's
Work. v.19. p.12540-12543. February 1910.

Costs.

- Answer to what is the matter with irrigation. E. P. Osgood. Engineering
news. v.71. p.408-412. February 19, 1914.
Gives a detailed analyses of capital outlay from the experience of an
engineer.
- Comparative cost of operating automobiles and teams on irrigation pro-
ject. C. P. Williams. Engineering and contracting. v.48.
p.291-292. October 10, 1917.
- Correct accounting principles in connection with the payment of con-
struction costs on federal irrigation projects. L. H. Hauter. Jour-
nal of farm economics. v.14. p.687-690. October 1932.
- Cost and value of water for the irrigation of citrus fruits in southern
California. C. E. Tait. California citrograph. v.8. p.99+
February 1923.
- Cost estimates of irrigation works. R. B. Van Horn. Washington.
Engineering experiment station. Bulletin no. 39. Pullman, Wash.,
1926. 61p.

Status of irrigation; economic problems; water supply and water rights; cost report, distribution system and operation, and maintenance; examples of estimating designs, tables, and suggested canal structures.

Cost of an irrigation system. A. King. Oregon. State horticultural society. Report, 1935. Salem, Oregon. 1935. p.41-45.

Cost of constructing a reinforced concrete check and delivery structure for an irrigation canal. H. M. Rouse. Engineering and contracting. v. 36. p.263-267. September 6, 1911. Gives plans, description and cost of work in California.

Cost of engineering work for maintenance and operation of large irrigation project. H. M. Chadwick. Engineering and contracting. v.52. p.418-419. October 8, 1919. Engineering order system evolved, operating Valier project, which permitted each job to be covered by an engineering order showing number, canal, reservoir, structure or land involved, class of work and information regarding necessity of survey.

Cost of installing an overhead sprinkling system. F. H. Macpherson. California citrograph. v.9. p.333. July 1924.

Cost of irrigation water in California, 1930. Sacramento, Cal., California state printing office, 1930. 146p. California. Department of public works. Division of water resources. Bulletin no.36 Results of study covering several years, 1929 in particular, under various types of irrigation enterprises, namely; public utilities, mutual water companies, irrigation districts and farm irrigation pumping plants.

Cost of producing crops on irrigated farms. R. T. Burdick and H. B. Pingrey. Colorado. Agricultural experiment station. Bulletin no. 353. Fort Collins, Colo., 1929. 72p.

Cost of pumping and duty of water for rice on the Grand prairie of Arkansas. B. S. Clayton. Arkansas. Agricultural experiment station. Bulletin no.261. Fayetteville, Ark., 1931. 48p.

Cost of pumping for irrigation. R. H. Roberts. Rhodesia agricultural journal. v.24. p.318-327. March 1927.

Cost of pumping for irrigation. O. L. Waller. Washington. State College. Department of extension. Bulletin no.103. Pullman, Wash., 1923. 23p.

Cost of pumping for irrigation. O. L. Waller. Washington. Agricultural experiment station. Popular bulletin no.104. Pullman, Wash., 1916. 11p.

- Cost of pumping for irrigation. S. M. Woodward. Arizona, Agricultural experiment station. Bulletin no. 49. Tucson, Ariz., 1904. 457-469p.
- Cost of pumping for irrigation in Colorado. W. E. Code. Colorado. Agricultural experiment station. Bulletin no. 388. Fort Collins, Colo., 1932. 69p.
- Cost of pumping from wells for the irrigation of rice in Louisiana and Arkansas. W. B. Gregory. U. S. Department of Agriculture. Office of experiment stations. Bulletin no. 201. Washington, D. C., 1908. 39p.
- Cost of pumping water for irrigation. R. H. Cates. Pacific rural press. v. 123. p. 158. February 20, 1932.
- Cost of reclamation service and other irrigation projects in Colorado. John E. Field. Engineering news. v. 70. p. 348-355 August 21, 1913. Criticism of recently published articles supposedly based on information furnished by the U. S. Reclamation Service.
- Cost of water to irrigators in California. H. F. Blaney. Sacramento, California. California state printing office, 1925. 66p. California. Department of public works. Division of engineering and irrigation. Bulletin no. 8. Results of a field study of cost of water to irrigators under various types of irrigation enterprises in California, which was supported cooperatively by Bureau of public works, U. S. Department of Agriculture, Department of public works of California, and University of California, Agricultural experiment station.
- Cost studies reveal pumping plant losses. W. C. Tesche. Pacific rural press. v. 123. p. 399. April 30, 1932.
- Costo de las obras de irrigacion. E. Torres Belon. Informaciones y memorias. v. 31. p. 443-445. July 1929. Cost of irrigation works. Up to 1920, irrigation works in Peru were practically those built by Incas, abandoned during Colonial epoch, and partly re-established during Republic; scientific study began 1904 and first new construction was completed in 1924; Imperial Pampa work cost total of 85 Peruvian pounds per hectare; costs in other countries range from 125 to 312.5 Peruvian pounds.
- Cutting labor costs in irrigation. W. Graham. Pacific rural press. v. 100. p. 48. July 10, 1920.
- Drainage of Shoshone irrigation project. D. W. Murphy. Engineering record. v. 69. p. 634-636. June 6, 1914. Illustrates and describes work and gives cost data on excavation with dragline scraper and ditch excavator.

- Economic limits of irrigation pumping. J. B. Brown. Pacific rural press.
v.131. p.503+ April 18, 1936.
- Economic limits of cost of water for irrigation, Boulder county, Colorado. R. P. Teele and Paul A. Ewing. A preliminary report. Washington, D. C., 1926. 35p. mimeographed.
- Economic limits of cost of water for irrigation; the Durham state land settlement, California. R. P. Teele and Paul A. Ewing. A preliminary report. Washington, D. C., 1925. 30p. mimeographed.
- Economic limits of the cost of water for irrigation, Henrylyn irrigation districts, Colorado. R. P. Teele and Paul A. Ewing. A preliminary report. Washington, D. C., 1926. 36p. mimeographed.
- Economic limits of cost of water for irrigation, Julesburg irrigation district, Colorado. A preliminary report. R. P. Teele and Paul A. Ewing. Washington, D. C., 1926. 35p. mimeographed.
- Economic limits of cost of water for irrigation, Larimer county, Colorado. A preliminary report. R. P. Teele and Paul A. Ewing. Washington, D. C., 1926. 31p. mimeographed.
- Economic limits of cost of water for irrigation, Morgan county, Colorado. A preliminary report. R. P. Teele and Paul A. Ewing. Washington, D. C. 1926. 32p. mimeographed.
- Economic limits of cost of water for irrigation; North Sterling irrigation districts, Logan county, Colorado. R. P. Teele and Paul A. Ewing. A preliminary report. Washington, D. C., 1925. 35p. mimeographed.
- Economic limits of cost of water for irrigation, Pecos county water improvement no. 1, Fort Stockton, Texas. R. P. Teele and Paul A. Ewing. A preliminary report. Washington, D. C., 1926. 23p. mimeographed.
- Economic limits of cost of water for irrigation; Rio Grande project, Texas. R. P. Teele and Paul A. Ewing. A preliminary report. Washington, D. C., 1925. 21p. mimeographed.
- Economic limits of the cost of water for irrigation: Weld County, Colorado. A preliminary report. R. P. Teele and Paul A. Ewing. Washington, D. C., 1926. 31p. mimeographed.
- Economic limits of the cost of water for irrigation; Wenatchee reclamation district, Washington. R. P. Teele and Paul A. Ewing. Washington, D. C., 1925. 35p. mimeographed.

- Economic limits of cost of water for irrigation; the Wyoming development company, Wyoming. R. P. Teele and Paul A. Ewing. Washington, D. C., 1925. 38p. mimeographed.
- Economical use of irrigation water based on tests. H. S. Clyde and others. Engineering news. v.91. p.548-552, 642-644. October 4, 18, 1923.
- Farm accounts in the Punjab, 1932-1933; being the ninth year's accounts of certain farms; with sections of cost of well-irrigation in the Punjab and cost of irrigation by tube well. Sardar Kardak Singh and Sardar Arjan Singh. Lahore, India, 1934. 266p. India. Board of economic inquiry. Publication no. 35.
- Federal vs. private irrigation. D. C. Henry. Engineering news. v.71. p.120-124. January 15, 1914. Compares the cost of private and of government irrigation, analyzing factors affecting the cost.
- Irrigation. H. P. Gillette. In his Handbook of construction cost. 1922. p.508-615.
- Irrigation and its cost to the farmer. Paul A. Ewing. U. S. Department of Agriculture. Yearbook, 1926. Washington, D. C., 1927. p.455-458.
- Irrigation on the Wind river indian reservation. A. P. Poorman. Indiana engineering society. Proceedings, 1912. Indianapolis, Ind., 1912. p.185-191. Describes project in Wyoming, giving costs.
- Lowering the cost of irrigation. R. W. Sparling. California cultivator. v.56. p.791. June 11, 1921.
- Methods and cost of constructing main canals and laterals for the Willow river land and irrigation project in Malheur county, Oregon. H. L. Dickerson. Engineering and contracting. v.36. p.135-140. August 2, 1911.
- Permissible annual charges for irrigation water in upper San Joaquin valley; a cooperative report by the College of Agriculture, University of California. Sacramento, Cal., California state printing office, 1930. 89p. California. Department of public works. Division of water resources. Bulletin no.34.
- Reducing irrigation cost. F. Lyman. System on the farm. v.7. p.160-161. September 1920.

Results of government investigations on the cost of pumping for irrigation. Engineering and contracting. v.36. p.236-239.
August 30, 1911. Summary of the main results.

Some methods and costs of irrigation construction on the Rock creek conservation company's project at Rock River, Wyoming. W. D'Rohan. Engineering and contracting. v.36. p.683-691.
December 27, 1911. Illustrated description.

Value and cost of water for irrigation in coastal plain of southern California. Prepared under cooperative agreement between the College of agriculture, University of California, and the Division of water resources, State department of public works. 1933. Sacramento, Cal., California state printing office, 1934. 189p.
California. Department of public works. Division of Water resources. Bulletin no. 43.

Value of water in Southern California. F. Thomas. Civil engineering. v.3. p.555-559. October 1933. Historical resume of cost of its development for irrigation and domestic use; economic disasters resulting from droughts; early water developments; artesian wells; rising values of water during present century; Colorado River aqueduct water; charges for domestic water.

Water cost of irrigation, Truckee valley, Nevada. C. A. Norcross. Nevada. College of agriculture. Extension division. Bulletin no. 15. Reno, Nevada, 1919. 31p.

Willamette Valley pumping pays dividends. W. R. Newmyer. Electrical West. v.76. p.27-28. March 1936.

HEALTH HAZARDS

Cane field irrigation and malaria. W. C. Earle. Sugar. v.28. p.384-385. August 1926.

Irrigation and disease. J. F. C. Haslam. Indian Engineering. v.86. p.23-24. July 13, 1929. Discussion of paper Schistosomiasis and malaria in relation to irrigation; no irrigation work should be carried out in malarious or potentially malarious country without preliminary survey, and continuous guidance and cooperation of experienced malariologist.

Malaria and irrigation. International sugar journal. v.28. p.522-524. October 1926.

- Man and mosquito in Ceylon. S. V. Pearson. Discovery. v.16.
p.11-14. January 1935.
- Relation of diseases to irrigation. Haslam. Engineering. v.128.
p.503. October 18, 1929. Review of report, Schistosomiasis relation to investigation, prepared for irrigation sub-committee of Committee of Civil Research, which is summary of present-day knowledge of subject and practical methods employed in protecting labor from incident of disease.
- Sanitary features of irrigation. J. H. Rider. American Journal of public health. v.20. p.1187-1191. November 1930.
Bacteriological analysis of irrigation waters and of irrigated vegetable crops; sewage irrigation in California and Arizona.
- Schistosomiasis and malaria, in relation to irrigation. J. F. C. Haslam. Water and water engineering. v.31. p.299-300. July 20, 1929.
- Schistosomiasis and malaria in relation to irrigation. J. F. C. Haslam. London, H. M. Stationery office, 1929. 52p.
- Stream pollution by irrigation residues. C. S. Scofield. Industrial and engineering chemistry. v.24. p.1223-1224. November 1932.
- HISTORY
- Agriculture in Mesopotamia in ancient and modern times. A. B. Lennie. Scottish geographical magazine. v.52. p.33-46. January 1936.
- Ancient Chaldean irrigation. Scientific american supplement. v.56. p.23358-23359. December 12, 1903.
- Ancient irrigation methods mingled with new in northern New Mexico. C. M. Johnstone. Hydraulic engineering. v.5. p.34-35, 42. September 1929. It is pointed out that methods of planting, cultivating and harvesting crops in some sections of New Mexico are same as practiced a century ago, while in other sections most modern methods are used as results of irrigation.
- Desert road to Turkestan. Owen Lattimore. Boston, Mass., 1924. Little, Brown & Co., 1929. 373p. Gives description of karez irrigation found in the Turfan depression, south of Mongolia. System introduced in the eighteenth century. In the Karez system, a well is dug in the water-bearing Piedmont gravel of a slope. Then a few yards downgrade, another well is sunk but not quite so deep, and then a tunnel is bored from the second to the first so that the water drains

from the higher to the lower level. A complete system consists of a whole chain of these interconnected wells from the lowest of which the water finally gushes to irrigate the adjacent rich level land.

Economic history of the Newlands irrigation project. F. B. Headley and G. Venstrom. Nevada. Agricultural experiment station. Bulletin., no.120. Reno, Nevada, 1920. 30p.

L'evolution des methods et des procedes agricoles de 1880 a 1930. L. Bretigniere. Genie civil. 59th anniversary number. p.27-29. 1930. Evolution of agricultural methods and processes from 1880 to 1930. Irrigation and dry farming; agricultural drainage and land reclamation; improvement of crops and plant breeding; science of soils and fertilizers; farm structures and machinery; farm management and marketing.

History and problems of irrigation developments in the west. J. A. Widtsoe. American society of civil engineers. Transactions. v.90. p.680-709. 1927. Problems of irrigation; extension of irrigated area; completion of existing projects; means for solving irrigation problems.

History and science of irrigation, artesian and petroleum and deep well drilling. Robert Kittle. Fremont, Nebraska, 1895. 99p.

History of ancient irrigation in various countries. C. S. Kinney. Irrigation age. v.33. p.86-89. May, 1918.

Irrigacion en el antiguo Peru. A. Regal. Informaciones y memorias. v.30. p.325-331. August 1928. Irrigation in ancient Peru. Notes on Peruvian history prior to Spanish conquest, from engineering viewpoint; agricultural character of indigenous population; utilization of soil; irrigation systems; works at headwaters of streams; aqueducts, ditches and canals.

Irrigation. Guy M. Walker. State's duty. v.9. p.161-167. June 1897. Review the history of irrigation in ancient and oriental countries, and calls attention to its importance in this country, offering suggestions for the raising of the needed funds.

Irrigation; past, present and future. J. M. Kyle. Congressional record. v.66. p.1775-1776. January 13, 1925. Presented at the Irrigation Congress held at Klamath Falls, Oregon in 1925.

Irrigation, 1910-1935. A. Chatterton. Engineering. v.139, special jubilee section. p.59. May 3, 1935.

- Irrigation and the government irrigation project at Yuma. Oscar C. S. Carter. Journal of the Franklin institute. v.163. p.217-242. March 1907. Review the early history of irrigation in various parts of the world, and describes the conditions in the semiarid and arid regions of the United States, and the irrigation projects under consideration and construction, with information relating to the Yuma projects.
- Irrigation in the Celestial empire. Engineering record. v.39. p.180. January 28, 1899. Illustrated account of Chinese works 2000 years old which are constructed and maintained in an unusual, though successful manner.
- Les irrigations dans le monde antique; causes de leur decadence; Egypte; Mesopotamie; Palestine. C. Audebeau. Revue generale des sciences. v.43. p.272-282. May 15, 1932.
- Kuan Hsien irrigation works. Engineer. v.86. p.403. October 21, 1898. Description of one of the oldest irrigation works in the world from a report of a journey made by S. J. L. Litten to north Ssu-Ch'uan.
- Life of George Chaffey: A story of irrigation beginnings in California and Australia. J. A. Alexander. Melbourne, Macmillan and co., ltd., 1928. 379p.
- Masterpieces of primitive engineering. Scientific american. v.118. p.225. March 16, 1918.
- Merveilles des fleuves et des ruisseaux. C. Millet. 2d edition. Paris, Hachette et cie., 1875. 363p.
- Prehistoric irrigation in Arizona. F. W. Hodge. Washington, D. C. Judd and Detweiler, printers, 1893. 323-330p.
- Review of the important advances in irrigation since 1900. Agricultural engineering. v.5. p.9-11, 32-34. January, February 1924. Report of committee on irrigation based on individual reports; deals with use of water in irrigation; hydro-electric power and irrigation; design of irrigation structures; pumping for irrigation. Irrigation law and water rights; irrigation district development; settlement of irrigation enterprises; forecast of future developments.
- Short history of irrigation development in South Africa. C. O. Dinscott. South African irrigation magazine. v.3. p.50-56. June 1924.
- Sixty years in the east. W. Willcocks. London, W. Blackwood & sons, 1935. 338p.
- Thirsty earth. E. H. Carrier. London, Christophers, 1928. 222p.

Results of government investigations on the cost of pumping for irrigation. Engineering and contracting. v.36. p.236-239.
August 30, 1911. Summary of the main results.

Some methods and costs of irrigation construction on the Rock creek conservation company's project at Rock River, Wyoming. W. D'Roan. Engineering and contracting. v.36. p.688-691.
December 27, 1911. Illustrated description.

Value and cost of water for irrigation in coastal plain of southern California. Prepared under cooperative agreement between the College of agriculture, University of California, and the Division of water resources, State department of public works. 1933. Sacramento, Cal., California state printing office, 1934. 189p.
California. Department of public works. Division of water resources. Bulletin no. 43.

Value of water in Southern California. F. Thomas. Civil engineering. v.3. p.555-559. October 1933. Historical resume of cost of its development for irrigation and domestic use; economic disasters resulting from droughts; early water developments; artesian wells; rising values of water during present century; Colorado River aqueduct water; charges for domestic water.

Water cost of irrigation, Truckee valley, Nevada. C. A. Norcross. Nevada. College of agriculture. Extension division. Bulletin no. 15. Reno, Nevada, 1919. 31p.

Willamette valley pumping pays dividends. W. R. Newmyer. Electrical West. v.76. p.27-28. March 1936.

HEALTH HAZARDS

Cane field irrigation and malaria. W. C. Earle. Sugar. v.28. p.384-385. August 1926.

Irrigation and disease. J. F. C. Haslam. Indian Engineering. v.86. p.23-24. July 13, 1929. Discussion of paper Schistosomiasis and malaria in relation to irrigation; no irrigation work should be carried out in malarious or potentially malarious country without preliminary survey, and continuous guidance and cooperation of experienced malariologist.

Malaria and irrigation. International sugar journal. v.28. p.522-524. October 1926.

- Man and mosquito in Ceylon. S. V. Pearson. Discovery. v.16.
p.11-14. January 1935.
- Relation of diseases to irrigation. Haslam. Engineering. v.128.
p.503. October 18, 1929. Review of report, Schistosomiasis relation to investigation, prepared for irrigation sub-committee of Committee of Civil Research, which is summary of present-day knowledge of subject and practical methods employed in protecting labor from incident of disease.
- Sanitary features of irrigation. J. H. Rider. American Journal of public health. v.20. p.1187-1191. November 1930.
Bacteriological analysis of irrigation waters and of irrigated vegetable crops; sewage irrigation in California and Arizona.
- Schistosomiasis and malaria, in relation to irrigation. J. F. C. Haslam. Water and water engineering. v.31. p.299-300. July 20, 1929.
- Schistosomiasis and malaria in relation to irrigation. J. F. C. Haslam. London, H. M. Stationery office, 1929. 52p.
- Stream pollution by irrigation residues. C. S. Scofield. Industrial and engineering chemistry. v.24. p.1223-1224. November 1932.

HISTORY

- Agriculture in Mesopotamia in ancient and modern times. A. B. Lennie. Scottish geographical magazine. v.52. p.33-46. January 1936.
- Ancient Chaldean irrigation. Scientific american supplement. v.56. p.23358-23359. December 12, 1903.
- Ancient irrigation methods mingled with new in northern New Mexico. C. M. Johnstone. Hydraulic engineering. v.5. p.34-35, 42. September 1929. It is pointed out that methods of planting, cultivating and harvesting crops in some sections of New Mexico are same as practiced a century ago, while in other sections most modern methods are used as results of irrigation.
- Desert road to Turkestan. Owen Lattimore. Boston, Mass., Little, Brown & Co., 1929. 373p. Gives description of karez irrigation found in the Turfan depression, south of Mongolia. System introduced in the eighteenth century. In the Karez system, a well is dug in the water-bearing Piedmont gravel of a slope. Then a few yards downgrade, another well is sunk but not quite so deep, and then a tunnel is bored from the second to the first so that the water drains

- Duty of water in Gallatin Valley (Montana). Samuel Fortier. U. S. Department of agriculture. Office of experiment stations. Bulletin no. 86. Washington, D. C., 1900. p.175-196.
- Duty of water in the Pacific Northwest. J. C. Stevens. American Society of civil Engineers. Transactions. v.83. p.2094-2131. 1920. By duty of water is meant average percentage of soil mixture that should mean average percentage of soil mixture that should be maintained for particular soil and crops. Quantity of irrigation water that, with precipitation and unavoidable losses, will maintain required amount of soil moisture in Pacific Northwest Region of United States, is investigated.
- Duty of water in Tule river basin, California. A. E. Chandler. U. S. Department of agriculture. Office of experiment stations. Bulletin no. 119. Washington, D. C., 1902. p.159-189.
- Duty of water in Wyoming. Clarence Thomas Johnston. U. S. Department of agriculture. Office of experiment stations. Bulletin no. 86. Washington, D. C., 1900. p.171-174.
- Duty-of-water investigations on Coal creek, Utah. A. Fife. Utah. Agricultural experiment station. Bulletin no.181. Logan, Utah, 1922. 22p.
- Duty of water on field peas, 1906. H. T. Nowell. Wyoming. Agricultural experiment station. Bulletin no.72. Laramie, Wyoming, 1907. 16p.
- Duty of water on the Laramie plains for 1899. William Harmon Fairfile. U. S. Department of agriculture. Office of experiment stations. Bulletin no. 104. Washington, D. C., 1902. p.215-220.
- Duty of water under the Amity canal, (Colorado). Thomas Berry. U. S. Department of agriculture. Office of experiment stations. Bulletin no.86. Washington, D. C. 1900. p.159-170.
- Duty of water under Gage canal, Riverside, Calif. William Irving. U. S. Department of agriculture. Office of experiment stations. Bulletin no. 86. Washington, D. C. 1900. p.131-148.
- Duty of water under Gage canal, Riverside, Calif, 1900. William Irving. U. S. Department of agriculture. Office of experiment stations. Bulletin no. 104. Washington, D. C., 1902. p.137-146.
- Duty of water under the Logan and Richmond canal. G. L. Swendsen. U. S. Department of agriculture. Office of experiment stations. Bulletin no.86. Washington, D. C., 1900. p.211-218

- Duty of well water and the cost and profit on irrigated crops in the Rio Grande Valley. J. J. Vernon, A. E. Lovett and J. M. Scott. New Mexico. Agricultural experiment station. Bulletin no.56. State College, New Mexico. 1905. 52p.
- Effect of mouthpieces on the flow of water through a submerged short pipe. F. B. Seely. Illinois. Engineering experiment station. Bulletin no.96. Urbana, Ill., 1917. 49p.
- Experiments on the economical use of irrigation water in Idaho. Don H. Bark. U. S. Department of Agriculture. Department bulletin no.339. Washington, D. C., 1916. 57p.
- Experiments to determine the duty of water on irrigated lands in Idaho. Don H. Bark. Engineering news. v.66. p.290-291. September 7, 1911. Abstract of a paper read before the Idaho society of engineers combined with portions of a report on investigations as published in the Biennial report of the State engineer.
- Factors determining the duty of water in irrigation. J. T. Kingdon. Engineering news record. v.86. p.546-547. March 31, 1921.
- Factors determining the duty of water in irrigation. H. F. Robinson. Engineering news record. v.83. p.355. August 21, 1919.
- Floataion gradient for the flow of water through porous strata and its bearing on the stability of foundations. V. I. Vaidhianathan and Hans Raj Lutha. Lahore, Supt, Govt, print. Punjab, 1936. 13p. India. Punjab irrigation research institute. Research publications. v.5, no.5.
- Flow of water in concrete pipe. F. C. Scobey. U. S. Department of agriculture. Department bulletin no.852. Washington, D. C., 1920. 100p.
- Flow of water in drain tile. D. L. Yarnell and S. M. Woodward. U. S. Department of agriculture. Department bulletin no.854. Washington, D. C., 1920. 50p.
- Flow of water in drainage channels; results of experiments to determine the roughness of coefficient n in Kutter's formula. C. E. Ramser. U. S. Department of agriculture. Technical bulletin no.129. Washington, D. C., 1929. 101p.
- Flow of water in dredged drainage ditches. C. E. Ramser. U. S. Department of agriculture. Department bulletin no.832. Washington, D. C., 1920. 60p.
- Flow of water in flumes. F. C. Scobey. U. S. Department of agriculture. Technical bulletin no.393. Washington, D. C., 1933. 98p.

- Flow of water in irrigation channels. F. C. Scobey. U. S. Department of Agriculture. Department bulletin no. 194. Washington, D. C., 1915. 68p.
- Flow of water in open conduits. A. P. Merrill. Engineering record. v.56 p.708-710. December 28, 1907. Gives an outline of a thesis investigation, discussing the results.
- Flow of water in pipes and flumes. Franklin Van Winkle. Power. v.29. p.775-780. November 10, 1908. Discusses drop in pressure due to friction, giving charts for determining the size of pipe for a given flow.
- Flow of water in riveted steel and analogous pipes. F. C. Scobey. U. S. Department of Agriculture. Technical bulletin no.150. Washington, D. C., 1930. 136p.
- Flow of water in wood-stave pipe. F. C. Scobey. U. S. Department of Agriculture. Department bulletin no.376. Washington, D. C., 1925. 87p.
- Flow through submerged rectangular orifices with modified contractions. V. M. Cone. Journal of agricultural research. v.9. p.97-114. April 23, 1917.
- Flowing water. Engineer. v.153. p.604-606. June 3, 1932.
- Flowing water. J. M. Lacey. Engineer. v.152. p.481-482. November 6, 1931. History of irrigation; irrigation engineering; inclination or slope.
- Frictional resistance in artificial waterways. V. M. Cone, R. E. Trimble and P. S. Jones. Colorado. Agricultural Experiment station. Bulletin no. 194. Fort Collins, Colorado, 1914. 48p.
- Graphic solution of Kutter's formula. L. I. Hewes and Joseph W. Roe. American Institute of Mining Engineers. Bulletin. v.29. p.453-454. 1909. Gives a graphic solution of interest to those who deal with canals, flumes and streams.
- Hydraulic design of sluice openings. I. I. Levy. Izvestiya nauchno-issledovatel'skovo instituta hidrotehniki. no.15. p.99-147. 1935. Theoretical design of sluice openings, used in intake structures of hydro-electric plants and irrigation systems built on rivers carrying heavy bed-load; theory rests on assumption that bed-load transportation is accomplished by traction along bottom of stream. English abstract.
- Hydraulic experiments with valves, orifices, hose, nozzles, and orifice buckets. A. N. Talbot and others. Illinois. Engineering experiment station. Bulletin no.105. Urbana, Ill., 1918. 76p.

Hydraulic formulae: development and discussion. School of mines quarterly. v.28. p.417-440. July 1907. Develops a general equation of discharge, and, from it, derives the various formulae for flow through orifices and over weirs of the shapes usually considered.

Hydraulics for engineers and engineering students. F. C. Lea. New York. Longmans, Green & Co., 1930. 775p. Clear, practical exposition of fundamentals of hydraulics, with illustrations of their applications to water wheels, pumps and hydraulic machines, and to measurement of flow of water.

Hydraulics with working tables. E. S. Bellasis. 2d edition. New York, D. van Nostrand co., 1920. 348p.

Hydrodynamical investigation of the flow of liquid in a saturated porous medium such as a soil. N. K. Bose. Lahore, Supt. govt. print. Punjab, 1929. 16p. India. Punjab irrigation research institute. Research publications. v2, no.1.

Idraulica rurale; generalita, governo delle acque, difesa agraria dalle acque. Vittorio Niccoli. Firenze, G. Barbera, 1902. 337p.

Increasing the duty of water. B. A. Etcheverry. Engineering record. v.66. p.492-494. November 2, 1912. Discussion of the losses which produce a low duty, estimating them at 76 per cent of the supply, and methods of conservation.

Investigation of the flow of water under Khanki weir and the pressures on the floor. E. M. Taylor, and H. L. Uppal. Lahore, Supt. govt. print. Punjab, 1934. 34p. India. Punjab irrigation research institute. Research publication. v.2, no.6.

Irrigation and duty of water. B. C. Buffum. Wyoming. Agricultural experiment station. Bulletin no.8. Laramie, Wyo., 1892. 32p.

Irrigation canals and other irrigation works including the flow of water in irrigation canals and open and closed channels generally with tables simplifying and facilitating the application of the formulae of Kutter, D'Arcy and Bazin. P. J. Flynn. San Francisco, Cal., 1892. 2v.

Irrigation hydraulics. D. C. Henry and others. American society of civil engineers. Proceedings. v.56. p.539-594. March 1930. Status of investigations on evaporation losses from reservoirs, canal conversions, water movement and pressure under dams, siphon spillways; fishways and fish screens, nomenclature, irrigation deliveries.

Irrigation requirements of the arable lands of the Great Basin. Samuel Fortier. U. S. Department of agriculture. Department bulletin no.1340. Washington, D. C., 1925. 56p.

- Irrigation requirements of the arid and semi-arid lands of the Missouri and Arkansas river basins. Samuel Fortier. U. S. Department of Agriculture. Technical Bulletin no.36. Washington, D. C., 1928. 112p.
- Irrigation requirements of the arid and semi-arid lands of the Pacific slope basins. Samuel Fortier and Arthur A. Young. U. S. Department of Agriculture. Technical Bulletin no.379. Washington, D. C., 1933. 70p.
- Irrigation requirements of the arid and semi-arid lands of the southwest. Samuel Fortier and Arthur A. Young. U. S. Department of Agriculture. Technical Bulletin no.185. Washington, D. C., 1930. 68p.
- Logarithmic diagram for the flow of water in open channels. George T. Prince. Engineering news. v.59. p.141. February 6, 1908. Gives a diagram based upon the Chezy formulae, with explanation.
- Making weir measurements in open streams. Franklin van Winkle. Power. v.31. p.1090-1094. December 28, 1909. Explains how to build the ordinary rectangular weir and modifications of the standard weir, and methods of comparing the flow of water over weirs and dams.
- Measuring irrigation deliveries in Punjab. E. S. Lindley. American Society of Civil Engineers. Transactions. v.96. p.1005-1019. 1932. Conditions of Indian canals, as affecting problem of distributing supplies in manner desired; devices available for effecting such distribution with minimum of manual control; records of investigations directed to their improvements; theories on which to base design and using of such devices to form complete scheme of automatic distribution; practice of group distribution.
- Measuring large flows. Engineering news record. v.106. p.183-188. January 29, 1931. Symposium of three articles upon application of venturi principle to specific problems; Flow in silt-laden canal gaged by contracted flume. R. L. Parshall; Determining coefficients for large venturi meters. S. F. Coghlan; Practical venturi meter for irrigation service. J. E. Christiansen and I. H. Teilman; Discharge co-efficient curves for usual and modified formula; arrangement and dimensions of irrigation venturi meter; precast venturi tubes; results of tests on half-size model of irrigation venturi meter.
- Mechanism for metering and recording the flow of fluids through venturi tubes, orifices, or conduits by integrating the velocity head. J. W. Ledoux. American Society of Civil Engineers. Transactions. v.76. p.1148-1171. 1913. Considers briefly the fundamental principles of the subject and describes a form of meter register.

- Methods and results of duty of water investigation in Idaho. Don H. Bark.
Engineering and contracting. v.36. p.468-471. November 1,
1911. Discusses the conditions affecting the duty of water, and ex-
plains method of conducting recent investigations and conclusions.
- Net duty of irrigation water. W. L. Powers. Engineering and contract-
ing. v.55. p.466-467. May 11, 1921.
- Net duty of water in Sevier Valley. O. W. Israelson and L. M. Winsor.
Utah. Agricultural experiment station. Bulletin no.182. Logan,
Utah, 1922. 36p.
- New idea in drainage for the irrigation farmer. J. C. Marr. Agricultur-
al engineering. v.6. p.306-307. December 1925.
Discusses sluicing or hydraulic methods of drainage, principle of which
is similar to that of hydraulic mining and hydraulic method of construct-
ing earthen dams, or displacement and conveyance of earthen materials
by a rapidly moving steam of water, the farmer providing needed drainage
facilities through expenditure of own time and energy rather than an out-
lay of capital.
- Observation and record of pressures below works on permeable foundations.
A. N. Khosla. Simla, India, 1934. 19p. India.
Central board of irrigation. Publication no.8. Experimental study
leading to conclusion that change of viscosity due to temperature has
marked effect on rate of flow and on resulting pressures below works
on permeable foundations; location and erection of pressure pipes and
standard instruments for measuring pressures under such works.
- Practical treatise on hydraulic and water supply engineering; relating to
the hydrology, hydrodynamics and practical construction of water works
in North America. J. T. Fanning. New York, 1893. 644p.
- Preliminary report on the duty of water. L. G. Carpenter. Colorado.
Agricultural experiment station. Bulletin no.22. Fort Collins, Colo.,
1893. 32p.
- Problems of water measurement. Civil engineering. v.1. p.1095-1103.
September 1931. Symposium consisting of three articles: Models pre-
dict flow through structures, J. C. Stevens; Improving accuracy of in-
struments, L. S. Hall; Unusual flow phenomena, F. C. Scobey; important
features of knowledge concerning use of models for determining flow
characteristics through hydraulic structures; importance of understand-
ing limitations of models; errors in readings of rain gages.
- Progress in hydraulic laboratory research. J. R. Freeman. Association of
Chinese and American engineers. Journal. v.10. p.40-49.
December 1929. Review of experimentation on basis of principle of
similitude, with special reference to hydraulic laboratory research in
Germany; research awaiting proper laboratory facilities; precision of

measurement of flowing water, by current meters and standard weirs; siphon spillways; hydraulic laboratory idea applied to river regulation.

Progress report of the Committee of the irrigation division on interstate water matters. American society of civil engineers. Transactions. v.94. p.1400-1424. 1930.

Progress report of special committee on irrigation hydraulics, 1925-1928. American society of civil engineers. Proceedings. v.51. p.137-140. v.52. p.242-246. v.53. p.121-133. v.54. p.173-180. 1925-1928.

Relation of forests to stream flow. J. W. Touney. U. S. Department of agriculture. Yearbook, 1903. Washington, D. C., 1904. p.279-288.

Report of the duty of water committee of the irrigation division on the consumptive use of water in irrigation. American society of civil engineers. Transactions. v.94. p.1349-1399. 1930. Discussion presenting results of measurements in Owens Valley, California, and other sections of California.

Report upon the flow of water through rectangular notches. D. L. Yarnell. Washington, D. C., U. S. Bureau of agricultural engineering, 1931. 14p. mimeographed.

Reservoir storage in relation to stream flow. William J. E. Binnie and Herbert Lapworth. Surveyor. v.43. p.981-987. June 27, 1913. Shows the necessity of obtaining actual gaugings of the particular stream to be impounded before any sound estimate of reservoir storage can be made.

Seasonal duty of irrigation water. F. W. Hanna. Engineering record. v.67. p.90-91. January 25, 1913. Gives conclusions based on observations made in the Boise valley, Idaho.

Snow surveying for the forecasting of stream flow. J. E. Church, Jr. Engineering news record. v.86. p.300-304. February 17, 1921. Methods, factors and results in making spring predictions of summer water supply for irrigation and power in streams fed by mountain snows.

Some notes on Khosla's principle of independent variables. J. K. Malhotra and E. McKenzie-Taylor. Lahore, Supt. govt. print. Punjab, 1937. 10p. India. Punjab irrigation research institute. Research publications. v.2. no.20.

Standing wave or hydraulic jump. Simla, India, 1934. 27p. India. Central board of irrigation. Publication no. 7.

Stream regulation with reference to irrigation and power. J. C. Stevens.
American society of civil engineers. Transactions. v.90.
p.958-993. 1927.

Studies of coefficient of friction in reinforced-concrete pipe, Umatilla
project, Oregon. Herbert D. Newell. Engineering News. v.69.
p.904-905. May 1, 1913. Reports results of some of these pipe lines
in service, giving experiments made to determine the coefficient of
friction.

Studies on sub-soil hydraulics. H. L. Uppal and J. P. Gunn. Lahore,
Supt. govt. print. Punjab, 1933. 24p. India. Punjab
irrigation research institute. Research publications. v.2., no.2.

Study of the flow of water under works on sand foundations by means of
models. E. M. Taylor and H. L. Uppal. Lahore, Supt. Govt. Print.
Punjab, 1934, 28p. India. Punjab irrigation research ins-
titute. Research publications. v.2, no.3.

Study of the flow of water under works on sand foundations by means of
models, part 2. E. M. Taylor and H. L. Uppal. Lahore, Supt. Govt.
print. Punjab, 1934. 5p. India. Punjab irrigation research
institute. Research publications. v.2, no.4.

Surface conditions and stream flow. W. L. Hall and Hu Maxwell. U. S.
Department of Agriculture. Forest Service. Circular no. 176.
Washington, D. C., 1910. 16p.

Use and duty of water in the Salt river valley. J. C. Marr and G. E. P.
Smith. Arizona. Agricultural experiment station. Bulletin no.120.
Tucson, Arizona, 1927. 57-97p.

Use of water in irrigation. Report of investigations made in 1899 under
the supervision of Elwood Mead and C. T. Johnston. U. S. Department
of Agriculture. Office of experiment station. Bulletin no. 86.
Washington, D. C., 1900. 253p.

Use of water in irrigation in Wyoming and its relation to the ownership
and distribution of the natural supply. B. C. Buffum. U. S. Depart-
ment of Agriculture. Office of experiment stations. Bulletin no.81.
Washington, D. C., 1900. 56p.

Velocity formulas for open channels and pipes. L. G. W. Lindquist.
Ingeniors vetenskaps akademien. Handlingar. No.130. 1934.
62p. Critical review of theoretical and empirical formulas
for computation of flow in open channels and in enclosed conduits in
light of recent studies and experiments. English, French and German.

Der Wasserbau. A. Schoklitsch. Vienna, Julius Springer, 1930. 2v.

Purpose of this book is to present comprehensive, balanced description of present day hydraulic engineering which will enable reader to inform himself quickly upon any of its topics. Vol 1: Discusses meteorology hydrology and hydraulics, soils, building materials, water supply and sewerage; text is concise and practical; illustrations are numerous and well-chosen; work affords good course in subject. Vol.2: Devoted to dams and reservoirs, hydraulic power plants, irrigation and drainage, river regulations and navigable canals; comprehensive description of current practice, especially that of central Europe, profusely illustrated from drawings and photographs.

Wasserbauliche stromungslehre. P. Nemenyi. Leipzig, Johann Ambrosius Barth, 1933. 275p. Critical, systematic review of physics of flow; basic principles; flow in pipes, in open channels with stationary and shifting beds, flow of groundwater, free fall of water, and technical aid of hydraulic work, are subjects treated.

Working data for irrigation engineers. E. A. Moritz. New York, John Wiley & sons, inc., 1915. 395p.

HYDROELECTRIC POWER DEVELOPMENTS.

Aprovechamientos hidroelectricos en los proyectos de irrigacion.

J. Herrera y Lasso. Irrigacion en Mexico. v.1. p.22-26.

May 1930. Hydroelectric utilization in irrigation projects. How power development affects financing of irrigation systems; factors in study of probable power markets.

Combined Irrigation and hydro-electric power schemes. E. Kilburn Scott.

Electrical review. v.70. p.903-904. May 31, 1912.

Information concerning the success of such enterprises and their possibilities.

Commercial development of the Minidoka project power plant, U. S. Reclamation

Service. Engineering and contracting. v.41. p.613.

May 27, 1914. Description of plant and discussion of the development of commercial supply of surplus power, with chart and cost data.

Comparacion de los tres proyecto estudiados para el desarrollo de la agricultura y de fuerza hidro-electrica en los valles de los rios Conchos y San Pedro, con las aguas de estas corrientes y del rio Florido, del estrado de Chihuahua. Irrigacion en Mexico. v.2. p.405-413.

March 1931. Comparison of three project studies for development of agriculture and hydro-electric power in valleys of Conchos and San Pedro Rivers, with waters of these streams and of Florido River, of state of Chihuahua.

- Co-ordination of irrigation and hydroelectric power. L. F. Leurey.
Journal of electricity. v.53. p.83-84. August 1, 1924.
- Co-ordination of irrigation and power. William Kelly. American society
of civil engineers. Transactions. v.89. p.1429-1484.
1926. General presentation of factors entering into problem,
illustrating difficulties, and pointing out certain solutions by
describing special cases that have come before Federal Power Com-
mission.
- Co-ordination of power and irrigation interests. J. C. Stevens.
Electrical West. v.59. p.73-76. August 1, 1927.
Flow characteristics of western streams in relation to irrigation needs
of territory and suggested basis for co-ordinating power and irrigation
interests.
- Development of hydro-electric power as aid to irrigation. C. C. Cragin.
American society of civil engineers. Transactions. v.98.
p.1240-1254. 1933. Economic feasibility of
hydroelectric development in connection with irrigation project; res-
trictions and fundamental principles in judging feasibility of combina-
tion; use of power in connection with irrigation project; illustrations
from Salt River project in Arizona.
- Eagle pass hydroelectric development. L. F. Harza and J. S. Bowman.
Power plant engineering. v.36. p.582-586. August 1, 1932.
- Electrical features of the U. S. Reclamation service. F. H. Newell.
American institute of electrical engineers. Proceedings. v.33.
p.1583-1598. October 1914. Illustrates the general character
and extent of the works being built by the government and indicates
the policy.
- Floating irrigation plant for Egypt. Engineer. v.156. p.118-119.
August 4, 1933.
- Grand Coulee - Key to Columbia river power. Electrical West. v.72.
p.18-19. February 1934. Costing some \$375,000,000 this project
will produce practically double amount of firm power available at Hoover
Dam and will provide facilities for irrigating 1,200,000 acres of land;
notes on Grand Coulee dam; power house; irrigation; cost of power.
- Grand Coulee dam and power plant specifications. A. G. Darwin.
Western construction news. v.9. p.103-114. April 1934.
U. S. Bureau of reclamation project comprising low-head development
of 1,575,000 kw. ultimate capacity and irrigation for area of
1,200,000 acres in central Washington; geology of Grand Coulee dam-
site on Columbia river; stream flow and river characteristics; trans-
portation facilities; foundation grouting and drainage; design assumptions
for dams.

- Hydro-electric irrigation project. H. B. McDermid. Power. v.35.
p.360-362. March 12, 1912. Illustrates and describes features
of the Minidoka Project, Idaho.
- Hydro-electric power and irrigation. Engineering. v.134. p.187-
188. August 12, 1932.
- Hydro-electric power and irrigation schemes in 1935. Engineer. v.161.
p.12-14. January 3, 1936.
- Hydro-electric power as a by-product of agricultural storage. T. N. Bryan.
American society of civil engineers. Transactions. v.88.
p.910-930. 1925.
- Hydro-electric power development as an aid to irrigation. C. C. Cragin.
American society of civil engineers. Proceedings. v.56.
p.1298-1305. August 1930. Storage of water in mountains and
pumping of water in valleys; use of power; power development must not
interfere with irrigation project; margin of profit should be much
greater than in ordinary hydro-electric development.
- Hydro-power provides revenue for irrigation works. H. A. Brown.
Power. v.74. p.663-665. November 10, 1931.
By combining power development with irrigation dams possible to pay
project's construction costs from power sales; under new policy, power
profits are first applied to repaying power plant's cost, then dam and
reservoir cost, and after that they are credited to reclamation fund;
power plants operated on Bureau of Reclamation Projects during fiscal
year.
- Interdependence of irrigation and hydro-electric power. J. D. Galloway.
Journal of electricity. v.52. p.351-354. May 15, 1924.
- Irrigation and electric energy. Electrical world. v.56. p.19-22.
July 7, 1910. Illustrates and describes the hydro-electric features
of some of the projects of the reclamation service in the United States.
- Irrigation and hydro-electric energy. Industrial Australian and mining
standard. v.74. p.550-551, 582-584. October 22, 29, 1925.
Details of Calivil irrigation system comprising 884,000 acres; Sugar
loaf reservoir for Rubicon Power scheme; hydraulic and electric equip-
ment, transmission lines of 173 miles of 66,000 volts and 131 miles
of 22,000 volts.
- Irrigation sense and nonsense. National electric light association.
Bulletin. v.18. p.413-417. June 1931.
- Irrigation supplementing water power; a new joint use for our canals.
J. H. Stevens. Scientific american. v.105. p.315. October 7,
1911.

- Irrigation water and electric power from same storage reservoir; Melones
dan. Scientific american. v.136. p.328-329. May 1927.
- Little water passes Eagle Pass unused. L. F. Harza. Electrical World.
v.100. p.498-501. October 8, 1932.
- New acres and power; federal bureau of reclamation is about to become a
factor in hydro-electric generation. W. E. Warne. Public utilities.
v.18. p.464-472. October 8, 1936.
- Oil power for irrigation along the Rio Grande: Fairbanks-Morse diesels.
O. Adams. Power. v.71. p.556-557. April 8, 1930.
- Pioneering; first irrigation pumping motor in the San Joaquin valley.
A. G. Wishon. Electrical West. v.64. p.625-626. June 1930.
- Power and irrigation combined in Melones development. E. A. Crollin.
Electrical world. v. 90. p.605-607. September 24, 1927.
Pacific gas and electric co. builds power plant and pays irrigation
districts water rental; low load factor and block-load operation
dictated simplicity and economy.
- Power aspects of federally-operated reclamation projects. W. D. Ketchum.
Edison electric institute. Bulletin. v.3. p.449-451.
December 1935.
- Power development on federal reclamation projects. L. N. McClellan.
Reclamation era. v.23. p.90-91. May 1932.
General review, including descriptions of Boise project plants, Lingle
and Guernsey plants, and a plant at Shoshone Dam.
- Power development on the Colorado river and its relation to irrigation
and flood control. O. C. Merrill. American institute of electrical
engineers. Journal. v.41. p.500-507. July 1922.
- Power generation on the All-American canal. Power plant engineering.
v.38. p.148. March 1934.
- Relation of power to irrigation. A. A. Smith. National electric light
association. Bulletin. v.11. p.52-54. January 1924.
- Rio Grande goes to work. C. L. Dowell. Electric Journal. v.29.
p.499-502. November 1932.
- Sivasanudran hydro-electric power scheme., Mysore. Engineering. v.135.
p.1-3,16. January 6, 1933.
- Social and economic value of electrical development in federal reclamation.
E. Mead. Reclamation era. v.23. p.121-122. July 1932.
Reclamation leads west in introduction of electricity; hydro-electric
development on Salt River project; Minidoka electric project; farm

homes use of electricity; growing importance of hydro-electric power; allocation of revenues from sale of power; sale of power to repay construction cost.

Stream regulation with reference to irrigation and power. J. C. Stevens. American society of civil engineers. Transactions. v.90. p.958-993. 1927. Inquiry in general terms into varied conditions where power and irrigation uses are of importance and to ascertain possibility of aiding in providing against conflict of interests where new developments are in prospect.

Texas hydro plant built on irrigation canal. Engineering news record. v.109. p.377-380. September 29, 1932.

Transmission applied to irrigation. O. H. Insign and James M. Gaylord. American institute of electrical engineers. Transactions. v.30. p.691-722. April 1911. Discussion of two hydro-electric transmission systems constructed by the Reclamation service, one applied to the irrigation of high lands by pumping from gravity canals and the other by pumping from underground sources.

Utilizzazioni idrauliche combinate per prouduzione de energia elettrica e per irrigazione. G. Ganassini. Energia elettrica. v.7. p.759-763. September 1930. Combined hydraulic projects for generation of electric power and for irrigation. Review of irrigation and hydro-electric power developments in Italy; engineering and economic factors common to irrigation and motive power, with special reference to case of Tirso development in Sardinia.

Water for electricity and irrigation. R. B. Hodges. Pacific rural press. v.99. p.225. February 14, 1920.

Water rheostat permits irrigation flow. H. J. Lawson. Electrical world. v.103. p.719-720. May 19, 1934.

IRRIGATED LANDS.

Better business. Better farming. Better living. Hints from a practical farmer to settlers on the projects of the United States Reclamation Service. I. D. O'Donnell. Washington, D. C., Government printing Office, 1918. 137p.

Development of methods of draining irrigated lands. C. G. Elliott. U. S. Department of agriculture. Office of experiment stations. Annual report, 1910. Washington, D. C., 1911. p.489-501.

Discharge of drains serving irrigated lands. Louis Theodore Jessup. Washington, D. C., Government printing office, 1933. 65p.

- Drainage and correlation of irrigation. C. G. Elliott. International engineering congress, 1915. Transactions. San Francisco, Cal., 1916. p.510-529.
- Drainage for irrigated lands. E. M. Chandler. American society of agricultural engineers. Transactions. v.10. p.82-84. 1917.
- Drainage for irrigated lands; with discussion. H. E. Murdock. American society of agricultural engineers. Transactions. v.10. p.72-82. 1917.
- Drainage of irrigated farms. R. A. Hart. U. S. Department of agriculture. Farmers' bulletin no.805. Washington, D. C., 1926. 32p.
- Drainage of irrigated land. R. A. Hart. U. S. Department of agriculture. Department bulletin no.190. Washington, D. C., 1915. 34p.
- Drainage of irrigated lands. Charles F. Brown. U. S. Department of agriculture. Farmers' bulletin no.371. Washington, D. C., 1909. 52p.
- Drainage of irrigated lands. D. W. Murphy. Engineering magazine. v.50. p.464-465. December 1915.
- Drainage of irrigated lands. W. W. Weir. Journal of agriculture of California. v.7. p.3-5. February 1921.
- Drainage of irrigated lands in the San Joaquin valley, California. Samuel Fortier. U. S. Department of agriculture. Office of experiment stations Bulletin no.217. Washington, D. C., 1909. 58p.
- Drainage of irrigated lands on the Minidoka project, Idaho. Engineering record. v.66. p.154-155. August 10, 1912.
- Drainage of irrigated shale land. D. G. Miller and L. T. Jessup. U. S. Department of agriculture. Department bulletin no.502. Washington, D. C., 1917. 40p.
- Effect of pumping from a shallow well on the ground-water table. Walter Wallace Weir. U. S. Department of agriculture. Journal of agricultural research. v.11. p.339-357. November 12, 1917.
- Effect of pumping from deep wells on the ground-water table. Walter Wallace Weir. U. S. Department of agriculture. Journal of agricultural research. v.34. p.663-672. April 1, 1927.
- Excessive irrigation and its dangers. J. A. Widtsoe. Agricultural journal of British Columbia. v.6. p.226-267, 290. January - February 1922.

- Irrigated lands in the U. S. Descriptions of all reclamation service projects - their location, acreage, cost of water rights, suitable crops, markets, railroad facilities and principal town. Complete list of government irrigated lands and Carey act projects. Many important private irrigation enterprises. St. Paul, Minn., Webb publishing co., 1911. 66p.
- Irrigated lands of United States, Canada and Mexico. Charles R. Price. Los Angeles, Cal., Scenic America publishing co., 1908. 71p.
- Nature of soil deterioration in Egypt. David S. Gracie and others. Cairo, Government press, 1934. 22p. Egypt, Ministry of agriculture. Technical and scientific service. Chemical section. Bulletin no. 148.
- Relationship between the unfree water and the heat of wetting of soils and its significance. G. J. Bouyoucos. Michigan. Agricultural experiment station. Technical bulletin no. 42. East Lansing, Mich., 1918. 23p.
- Report of the committee of the irrigation division on drainage of irrigated lands. American society of civil engineers. Transactions. v. 94. p. 1425-1449. 1930.
- Settlement of irrigated lands. Carl Schurz Scofield. U. S. Department of agriculture. Yearbook, 1912. Washington, D. C., 1913. p. 483-494.
- Temperature of irrigation fields. Engineering record. v. 38. p. 463-464. October 29, 1898. Review of observations with soil thermometers showing how irrigation affects temperatures.
- Zonas de regadio en Tucuman. Carlos Wauters. Rio de Janeiro, Imprensa nacional, 1908. 256p.

Forest Irrigation.

- Bewässerungsversuche im walde. Karl Bohnerle. Wien, W. Frick, K.u.K. Hofbuchhandlung, 1905. 30p.
- Bewässerungsversuche im walde. Dr. Adolf Cieslar. Wien, W. Frick, K.u.K. Hofbuchhandlung, 1905. 19p.
- Essais d'irrigation en foret faits pres de Vienne (Autriche) Karl Bohnerle and Adolf Cieslar. Paris, 1905. Annales de la science agronomique v. 2. p. 124-137. 1905.

Garden Irrigation

- Back-yard irrigation. Literary digest. v.53. p.350-351.
August 12, 1916.
- Garden irrigation. Wallaces' farmer. v.44. p.1528. August 8,
1919.
- Garden irrigation. D. C. Mooring. Country gentleman. v.85.
p.43. June 12, 1920.
- Garden irrigation; with discussion. L. Herziger. Wisconsin horticultur-
al society. Report. v.48. Madison, Wis., 1918. p.172-179.
- Home vegetable garden in dry weather. A. E. Hutchins. Minnesota.
College of agriculture. Extension division. Circular no.47.
St. Paul, Minn., 1934. 8p.
- Hot-weather gardening - irrigation, cultivation, mulching. Country
gentleman. v.81. p.1304. July 1, 1916.
- How to irrigate a garden. F. F. Rockwell. Garden magazine. v.24.
p.244. January 1917.
- Irrigating the garden. L. C. Aicher. Idaho. University. Extension
division. Club helps no. 10. Boise, Idaho, 1918. 4p.
- Irrigating the vegetable garden. A. R. Gould. California cultivator.
v.55. p.834. December 25, 1920.
- Irrigation, watering, sprinkling. F. Steele. Garden magazine. v.23
p.297-299. June 1916.
- Irrigation for the garden and greenhouse. L. R. Taft. U. S. Department
of agriculture. Yearbook, 1895. Washington, D. C., 1896.
p.233-246.
- Irrigation in field and garden. E. J. Wickson. U. S. Department of
agriculture. Farmers' bulletin no.138. Washington, D. C., 1901.
40p.
- Irrigation in the market garden; with discussion. C. E. Warner. Minn-
esota horticulturist. v.46. p.70-75. February 1918.
- Irrigation of garden crops. B. D. Halsted and J. A. Kelsey. New Jersey.
Agricultural experiment station. Bulletin no.115. New Brunswick,
N. J., 1895. 16p.
- Irrigation of gardens. A. Grove. Gardeners' Chronicle. v.70.
p.195,211. October 15 - 22, 1921.

- Irrigation of gardens. A. Grove. Gardeners' Chronicle. v.94.
p.236-237, 344, 434. September 23, November 4, December 9, 1933.
- Irrigation of the garden. W. S. Thornber. Washington. State College.
Department of Extension. Circular no.11. Pullman, Wash., 1911. 1p.
- Making the garden safe for the summer. F. T. Rockwell. Garden Magazine.
v.25. p.280-281. June 1917.
- Method of farm garden irrigation. J. H. Painter. Panhandle. Agricultural
experiment station. Bulletin no.4. Goodwell, Okla., 1929. 10-14p.
- New irrigation for the small garden. F. T. Rockwell. Garden Magazine.
v.21. p.258-260. June 1915.
- Overhead in the garden. T. H. Parks. Garden Irrigation. J. B. Marcellus.
Kansas. State Agricultural college. Division of College Extension.
X-form no.31. Manhattan, Kansas, 1918. 2p.
- Some observations on garden irrigation. E. C. Volz. Illinois state
horticultural society. Transactions, 1919. Normal, Ill., 1920.
p.229-236.
- Suggestions on care and irrigation of gardens and lawns. Engineering and
contracting. v.49. p.464. May 8, 1918.
- Water to increase garden efficiency. G. W. Hood. Garden Magazine. v.26
p.13-14. August 1917.

Meadow Irrigation.

- Beitrage sur berieselungsfrage der wiesen. Beschreibung der versuchswiese.
Kurt Michaelis. Landwirtschaftliche jahrbucher. v.11. p.151-157.
1882.
- Beitrage sur berieselungsfrage der wiesen. Veranderungen und wirkungen
des rieselwassers bei der berieselung. Franz Joseph Konig. Landwirt-
schaftliche jahrbucher. v.11. p.158-212. 1882.
- Clover in the subirrigated meadows of the Sand Hills. E. M. Brouse.
Nebraska. Agricultural experiment station. Bulletin No.241. Lincoln,
Nebraska, 1930. 12p.
- Einlassen von winterhochwasser in die rechtsseitige Elbniederung zwischen
Wittenberge und Donitz. Paul Gerhardt. Landwirtschaftliche jahrbucher.
v.20. p.293-333. 1891.

- Factors influencing the establishment of irrigated pastures in northern Colorado. H. C. Hanson. Colorado. Agricultural experiment station. Bulletin no. 378. Fort Collins, Colo., 1931. 53p.
- Improvement and irrigation requirement of wild meadow and tule land. W. L. Powers and W. W. Johnston. Oregon. Agricultural experiment station. Bulletin no. 167. Corvallis, Oregon, 1920. 44p.
- Irrigated pastures. L. C. Bartels. Journal of the Department of Agriculture of Victoria. v. 29. p. 66-69. v. 30. p. 441-444, 565-568. February 1931, September, December 1932.
- Irrigated pastures. A. L. Campbell. California cultivator. v. 76. p. 560. May 23, 1931.
- Irrigated pastures. Dan Hansen. Montana. Agricultural experiment station. Bulletin no. 166. Bozeman, Mont., 1924. 12p.
- Irrigated pastures for dairy cattle. I. R. Jones and P. M. Brandt. Oregon. Agricultural experiment station. Bulletin no. 264. Corvallis, Oregon, 1930. 30p.
- Irrigation of meadow and truck farmers in the north Atlantic States. A. J. Bowie, Jr. Engineering News. v. 56. p. 196-197. August 23, 1906. Gives information concerning irrigated lands and the plants for watering them.
- Irrigation of meadow crops. Oregon. Agricultural college. Extension service. Circular no. 225. Corvallis, Ore., 1926. 4p.
- Irrigation of meadow crops. Oregon. Agricultural college. Extension service. Corvallis, Ore., 1920. 4p.
- Irrigation of pasture lands. L. C. Bartels. Journal of the Department of Agriculture of Victoria. v. 25. p. 160-165. March 1927.
- Management of irrigated grass pastures. J. S. Welch. Idaho. Agricultural experiment station. Bulletin no. 95. Moscow, Idaho., 1917. 17p.
- National irrigation, or the various methods of watering meadows; affording means to increase the population, wealth, and revenue of the kingdom, by an agricultural commercial, and general economy in the use of water. William Tatham. London, Printed for J. and T. Carpenter, 1801. 427p.
- Observations on the utility, form and management of water meadows and the draining and irrigating of peat bogs. Wm. Smith. London, 1806. 121p.

Pasture irrigation. L. J. Smith and others. Washington. Agricultural Experiment Station. Bulletin no.313. Pullman, Wash., 1935. 28p.

Silierversuche mit gras von berieselten wiesen. Karl Hermann Gneist. Landwirtschaftlichen versuchs - stationen. v.121. p.157-174. 1934.

Treatise on watering meadows. .Wherein are shown some of the many advantages arising from the mode of practice, particularly on coarse, boggy, or barren lands. George Boswell. 3d edition. London, J. Debrett, 1792. 134p.

Vegetative succession under irrigation. J. Francis Macbride. U. S. Department of Agriculture. Journal of Agricultural Research. v.6. p.741-760. August 7, 1916.

IRRIGATION FARMING.

Abuse of water on fruit trees. D. F. Fisher. Better fruit. v.12. p.57 April 1918.

Actual quantities of water used on irrigation projects of U. S. Reclamation Service. E. A. Moritz. Engineering and contracting. v.51. p.29-31. January 8, 1919.

Adding to farm profits by irrigation. C. F. Carter. Current history magazine. v.18. p.479-484. June 1923.

Advantages of irrigation for market gardeners. H. W. Schneck. Market growers Journal. v.25. p.49. August 1, 1919.

Agricultural development of northwest India. A. Howard and G. L. C. Howard. Agricultural Journal of India. Science Congress, 1917. p.67-76. 1917.

Agricultural development of the canal tracts of the Bombay Deccan. T. F. Main. Agricultural Journal of India. v.21. p.343-346. September 1926.

Agricultural program for the irrigated region of northern Colorado. T. H. Sumners. Colorado. Agricultural College. Extension service. Fort Colling, Colo., n.d. 70p.

Agricultural regions of North America; the grazing and irrigated crops region. O. E. Baker. Economic geography. v.7. p.325-364. v.8. p.325-377. October 1931, October 1932.

Agriculture in Sind under the Barrage canals system. T. F. Main. Bombay. Department of Agriculture. Bulletin no.158. Poona, Bombay, 1929. 72p.

- Agriculture in the Imperial Valley; a manual for settlers. W. E. Packard. California. Agricultural experiment station. Circular no.159. Berkeley, Cal., 1917. 70p.
- Agriculture on government reclamation projects. C. S. Scofield and F. D. Farrell. U. S. Department of agriculture. Yearbook, 1916. Washington, D. C., 1917. p.177-198.
- Alfalfa and sweet clover on irrigated farms. R. P. Bean. Washington. State college. Department of extension. Bulletin no.158. Pullman, Washington, 1930. 7p.
- Algunos aspectos economicos del aprovechamiento de las aguas, con especial referencia a la cuenca del Duero. R. Rubio. Revista de obras publicas. v.76. p.240-243. July 1, 1928. Some economic aspects concerning the utilization of water, with special reference to the Duero Valley. Economic problem of utilization; irrigation with surface and ground-waters; irrigation, dry farming and forests; rural electrification; Duero Hydrographic Federation.
- Alkali content of soils as related to crop growth. F. T. Shutt. Agricultural gazette of Canada. v.6. p.8-15. January 1919
- Amount of water used. Scientific american. v.87. p.101. August 16, 1902.
- Analysis of agriculture on the Milk river irrigation project. P. L. Slagsvold and G. H. Dingham. Montana. Agricultural experiment station. Bulletin no.290. Bozeman, Mont., 1934. 80p.
- Analysis of the present status of agriculture on the Sun river irrigation project. P. L. Slagsvold. Montana. Agricultural experiment station. Bulletin no.321. Bozeman, Mont., 1936. 60p.
- Analysis of the utilization of irrigation water in typical Punjab canals. B. H. Wildson and M. M. Lal. Lahore, Supt. govt. print. Punjab, 1930. 10p. India. Punjab irrigation research institute. Research publication. v.3, no.1.
- Annual forage crops under irrigation. J. E. Norton. Montana. Agricultural experiment station. Bulletin no.261. Bozeman, Montana, 1932. 17p.
- Artificial moisture and crop rotation essential to greater production. Agricultural review. v.18. p.10. June 1925.
- Bankers and irrigation farming. C. S. Scofield. Banker farmer. v.14. p.6-7. December 1926.

- Belle Fourche project. Dakota farmer. v.43. p.648.
July 15, 1923.
- Billions to help alfalfa culture. Pacific Rural press. p.99.
p.270. February 14, 1920.
- Buying irrigated lands. J. F. Bruins. Hoard's Dairyman. v.55.
p.1044. July 19, 1918.
- Canadian irrigationists will discuss all phases of agriculture. R. J.
Stead. Irrigation eng. v.33. p.154. July
1918.
- Chemical composition of crops as affected by different quantities of
irrigation water. J. A. Widtsoe and Robert Stewart. Utah.
Agricultural experiment station. Bulletin no.120. Logan,
Utah, 1912. 205-240p.
- Construction of an irrigation area for the purpose of fodder production.
F. Suter. Journal of the department of agriculture of South Australia.
v.37. p.1325-1327. May 1934.
- Consumptive use of water in irrigation. C. H. Lee and M. R. Lewis.
American society of civil engineers. Transactions. v.94.
p,1349-1399. 1930.
- Cost of producing crops on irrigated farms. R. T. Burdick and H. B.
Pingrey. Colorado. Agricultural Experiment station. Bulletin no.
353. Fort Collins, Colo., 1929. 72p.
- Cotton growing under irrigation in the southwest. P. L. Edwards. Over-
land monthly. n.s., v.69. p.501-504. June 1917.
- Country life in the reclaimed desert. A. W. Page. Country Life. v.21.
p.27-31. November 1, 1911.
- Crop rotation under irrigation. J. A. Holden. Nebraska. Agricultural
Experiment station. Bulletin no.190. Lincoln, Nebr., 1923. 11p.
- Crops for new land on irrigation projects in Washington. H. P. Singleton.
Washington. Agricultural Experiment station. Popular bulletin no. 132.
Pullman, Wash., 1925. 22p.
- Cultivation and its relation to irrigation. W. H. Williams. California
citrograph. v.16. p.574-576. October 1931.
- Cultivation of boree country. G. G. Potts. Agricultural Gazette of New
South Wales. v.30. p.539-540. August 1919.

- Culture of small fruits on irrigated sandy land. R. W. Allen. Oregon Agricultural Experiment Station. Bulletin no.142. Corvallis, Ore., 1917. 14p.
- Cutting power bills on the irrigated farm. Scientific American. v.119. p.471. December 14, 1918.
- Date and rate-of-seeding tests with spring grains under irrigation. A. Atkinson. Montana. Agricultural Experiment Station. Bulletin no. 120. Bozeman, Montana, 1917. 107-117p.
- Dairy farming on the Yanco irrigation area. M. A. O'Callaghan. Agricultural Gazette of New South Wales. v.28. p.359-362. May 1917.
- Dairying under irrigation in New South Wales. P. Waller. Agricultural Gazette of New South Wales. v.36. p.553-556. August 1925.
- Development in the delta. J. Klein. California Cultivator. v.65. p.371. October 17, 1925.
- Drainage of irrigated farms. R. A. Hart. U. S. Department of agriculture. Farmers' bulletin no.805. Washington, D. C., 1917. 31p.
- Dry-farming: System of Agriculture for countries under a low rainfall. John A. Widtsoe. New York, Macmillan company, 1911. 445p.
- Dry-farmed and irrigated wheat. J. S. Jones and C. W. Colver. Idaho. Agricultural Experiment Station. Bulletin no.88. Moscow, Idaho, 1916. 18p.
- Duty of water and how to determine it. E. C. McClellan. Irrigation Age. v.32. p.184-186. October 1917.
- Economic analysis of production problems on the Flathead irrigation project. S. C. Johnson. Montana. Agricultural Experiment Station. Bulletin No.237. Bozeman, Montana, 1930. 88p.
- Economic problems in agriculture by irrigation. H. C. Taylor. Journal of Political Economy. v.15. p.209-228. April 1907.
- Economic study of irrigated farming in Twin Falls county, Idaho. B. Hunter and S. B. Nickols. U. S. Department of agriculture. Department bulletin no.1421. Washington, D. C., 1926. 74p.
- Economic survey of agriculture of the Minidoka area, and recommendations adopted at the economic conference held February 22 to 24, 1927, at Burley, Idaho. Prepared by J. W. Barber and John T. Montgomery. Moscow, Idaho, University of Idaho. College of agriculture, Extension department, 1927. 55p. mimeographed.

- Economical furrow irrigation. F. L. Shanks. Pacific rural press. v.115.
p.344. March 17, 1928.
- Economical irrigation of alfalfa in Sacramento valley. S. H. Beckett and
R. D. Robertson. California. Agricultural Experiment station. Bulletin
no.280. Berkeley, California, 1917. 273-294p.
- Economical use of irrigation water. W. L. Powers. Oregon. Agricultural
Experiment station. Bulletin no.140. Corvallis, Ore, 1917. 79p.
- Economy resulting from the use of the level on the farm. George M. Lewis.
Journal of the association of engineering societies. v.44.
p.263-266. April 1910. Suggestions for increasing the efficiency
of water in irrigated districts.
- Effect of alfalfa and farm manure on yields of irrigated crops in the Great
Plains. Stephen H. Hastings. U. S. Department of agriculture. Techni-
cal bulletin no.483. Washington, D. C., 1935. 40p.
- Effect of alfalfa on the subsequent yields of irrigated field crops. C. S.
Scofield. U. S. Department of agriculture. Department bulletin no.881.
Washington, D. C., 1920. 13p.
- Effect of depth of submergence on the control of barnyard grass and the
yield of rice grown in pots. J. W. Jones. American society of agron-
omy. Journal. v.25. p.578-583. September 1933.
- Effect of farm manure in stimulating the yields of irrigated field crops.
C. S. Scofield. Journal of agricultural research. v.15. p.493-
503. December 2, 1918.
- Effect of irrigation on the growth and composition of plants at different
periods of their development. J. A. Widtsoe and Robert Stewart. Utah.
Agricultural experiment station. Bulletin no.119. Logan, Utah,
1912. 169-200p.
- Effect of time of irrigation on kernel development of barley. H. V. Harlan
and S. Anthony. Journal of agricultural research. v.21. p.29-45.
April 1, 1921.
- Effect of irrigation and alfalfa production on arid soil composition.
T. J. Dunnewald. American society of agronomy. Journal. v.23.
p.744-750. September 1931.
- Efficiency of irrigation. G. E. P. Smith. Engineering and contract-
ing. v.62. p.576-578. June 14, 1922.
- Engineering principles applied to farm irrigation. A. L. Harris. En-
gineering news record. v.70. p.1172-1175. December 11, 1913.
Remarks on the advisability of applying scientific principles in the
application of water to land, reporting some of the work showing
progress.

- Essentials of irrigation and cultivation of orchards. F. J. Veihmeyer and A. E. Hendrickson. California. Agricultural extension service. Circular, no. 50. Berkeley, California, 1930. 24p.
- Experiments in the disposal of irrigated crops through the use of hogs. J. A. Holden. U. S. Department of agriculture. Department Bulletin no. 488. Washington, D. C., 1917. 25p.
- Experiments in the irrigation of apple orchards. E. P. Taylor and G. J. Downing. Idaho. Agricultural experiment station. Bulletin no. 99. Moscow, Idaho, 1917. 48p.
- Experiments in the production of crops on alkali land on the Huntley reclamation project, Montana. D. Hansen. U. S. Department of agriculture. Department bulletin no. 135. Washington, D. C., 1914. 19p.
- Experiments on the economical use of irrigation water in Idaho. Don H. Bark. U. S. Department of agriculture. Department bulletin no. 339. Washington, D. C., 1916. 58p.
- Experiments with crops under fall irrigation at the Scottsbluff reclamation project experiment farm. F. Knorr. U. S. Department of agriculture. Department bulletin no. 133. Washington, D. C., 1914. 17p.
- Experiments with legume crops under irrigation. J. S. Welch. Idaho. Agricultural experiment station. Bulletin no. 94. Moscow, Idaho, 1917. 14p.
- Experiments with small grains under irrigation. J. S. Welch. Idaho. Agricultural Experiment Station. Bulletin no. 93. Moscow, Idaho, 1917. 24p.
- Factors affecting economical use of water in irrigation. W. L. Powers. Engineering and Contracting. v. 48. p. 493-494. December 12, 1917.
- Factors influencing the water requirement of plants. C. C. Thom and H. F. Haltz. Washington. Agricultural experiment station. Bulletin no. 146. Pullman, Wash., 1917. 64p.
- Factors that influence profits on irrigated farms. L. A. Moorhouse and others. Colorado. Agricultural Experiment Station. Bulletin no. 318. Fort Collins, Colo., 1927. 49p.
- Farm irrigation. A. A. Mills. Orchard and vineyard irrigation. E. S. Richman. Utah. Agricultural Experiment station. Bulletin no. 39. Logan, Utah, 1895. 76p.

- Farm management problems on irrigated farms in hay and potato areas of the Yakima Valley, Washington. E. R. Johnson and S. B. Nuckols. U. S. Department of Agriculture. Department bulletin no.1388. Washington, D. C., 1926. 64p.
- Farm organization studies on irrigated farms in the Billings region of Montana. T. L. Currier and D. C. Wood. Montana. Agricultural Experiment station. Bulletin no.144. Bozeman, Mont., 1921. 77p.
- Farm practice in growing sugar beets for three districts in Colorado, 1914-15. L. A. Moorhouse and others. U. S. Department of Agriculture. Department bulletin no.726. Washington, D. C., 1918. 59p.
- Farming business in the Gallatin Valley. E. D. Selby. Montana. Agricultural Experiment station. Bulletin no.175. Bozeman, Mont., 1925. 30p.
- Farming possibilities in Escalante valley. J. W. Paxman and L. H. Winsor. Utah. Agricultural college. Extension division. Circular, v.5, no.9. Logan, Utah, 1917. 8p.
- Farming with water. E. V. Wilcox. Country Gentleman. v.85. p.11-12. August 7, 1920.
- Fifty-six years as an irrigator. E. V. Wilcox. Country Gentleman. v.85. p.10-11. October 23, 1920.
- Flood irrigation. H. D. Murdock and H. L. Lantz. Montana. College of Agriculture and mechanic arts. Extension service. Circular no.17. Bozeman, Montana, 1931. 7p.
- Flood-water farming. K. Bryan. Geographical review. v.19. p.444-456. July 1929.
- Forage and root crops. C. S. Knight. Nevada. Agricultural Experiment station. Bulletin no. 36. Reno, Nevada, 1917. 20p.
- From desert to dairy by a magician's wand. E. D. Rockwood. Hoard's Dairyman. v.52. p.39. August 4, 1916.
- Galloway irrigation farm. R. B. Tennent. Journal of Agriculture of New Zealand. v.33. p.234-243. October 1926.
- Giving the settler on irrigation projects a square deal. Irrigation age. v.31. p.69. March 1916.
- Grading land for furrow irrigation. G. J. P. Smith. Western Engineering. v.9. p.21-23. January 1918. Study of the relations between soil, slope, length of run, and unit head of water should be made.

- Grand Valley irrigation project. Washington, D. C., U. S. Reclamation service, n.d. 16p.
- Grand Valley project. S. O. Harper. Irrigation age. v.33. p.76-77. May 1918.
- Growing corn on irrigated land. D. Hansen. Montana. Agricultural Experiment station. Bulletin no.193. Bozeman, Montana, 1926. 16p.
- Growing irrigated crops in Harney Valley. O. Shattuck and D. W. Ritchie. Oregon. Agricultural Experiment station. Bulletin no.191. Corvallis, Oregon, 1922. 24p.
- Growing maize under irrigation. H. C. Churches. Journal of the department of agriculture of Victoria. v.15. p.635. October 1917.
- Hairy Peruvian alfalfa. W. D. Bryah. Arizona. Agricultural Experiment station. Timely hints No.132. Tucson, Arizona, 1917. 6p.
- How I increase my alfalfa yields. L. C. Moore. System on the farm. v7. p.244. October 1920.
- How I took much of the uncertainty out of farming. I. Adrian. System on the farm. v.2. p.134-135. April 1918.
- How to irrigate potatoes. J. H. Wilkinson. Dakota Farmer. v.43. p.649. July 15, 1923.
- Implement tillage for irrigation. R. L. Page. Journal of the Department of agriculture of Porto Rico. v.8. p.16-21. April 1924.
- Important factors in the operation of irrigated Utah farms. E. B. Brossard. Utah. Agricultural Experiment station. Bulletin no. 160. Logan, Utah, 1917. 48p.
- Important questions for irrigators. G. Lowther. Irrigation age. v.31. p.149-150. August 1916.
- Individual pumping systems for farm irrigation. Irrigation age. v.32. p.107. May 1917.
- Instruction in irrigation farming on Alberta irrigation projects. D. H. Bark. Agricultural gazette of Canada. v.8. p.364-365. May 1921.
- Intensive cultivation of alfalfa. R. H. Forbes. Arizona. Agricultural Experiment station. Timely hints No.93. Tucson, Ariz., 1917. 8p.

- Interesting letter concerning recent hearings before the House Committee on irrigated lands. F. D. Catlin. Irrigation age. v.32. p.136-138. July 1918.
- Irrigated agriculture in the San Luis Valley. V. M. Cone and Alvin Kezer. Colorado. Agricultural Experiment station. Bulletin no.209. Fort Collins, Colo., 1915. 32p.
- Irrigated crop rotations at the Huntley (Mont) field station, 1912-35. Stephen H. Hastings and Dan Hansen. U. S. Department of Agriculture. Technical bulletin no.571. Washington, D. C., 1937. 38p.
- Irrigated crop rotations in western Nebraska. Carl S. Scofield. U. S. Department of Agriculture. Technical bulletin no.2. Washington, D. C., 1927. 26p.
- Irrigated crop rotations in western Nebraska, 1912-34. Stephen H. Hastings. U. S. Department of Agriculture. Technical bulletin no. 512. Washington, D. C., 1936. 36p.
- Irrigated crop rotations in western South Dakota. Stephens H. Hastings. U. S. Department of Agriculture. Circular no.188. Washington, D. C., 1932. 46p.
- Irrigated crops; sowing lucerne and permanent pastures. L. C. Bartels. Journal of the department of Agriculture of Victoria. v.31. p.116-119. March 1933.
- Irrigated farming in Colorado. A. Kezer. Denver, Colo., Colorado state board of immigration, n.d. 19p.
- Irrigated pastures. G. F. Stratton. Country gentleman. v.83. p.12. December 14, 1918.
- Irrigated pastures for northern reclamation projects. F. D. Farrell. Washington, D. C., U. S. Bureau of plant industry, 1916. 16p.
- Irrigating alfalfa by strip checks. J. B. Brown. Pacific rural press. v.115. p.350. March 17, 1928.
- Irrigating alfalfa for seed. Dakota farmer. v.39. p.696. April 15, 1919.
- Irrigating field crops. R. A. Condee. California cultivator. v.58. p.61. January 21, 1922.
- Irrigating the farm garden. Successful farming. v.21. p.22. June 1922.

- Irrigating the home garden. California cultivator. v.58. p.74.
January 21, 1922.
- Irrigating the vegetable garden. D. F. Reichard. California cultivator.
v.58. p.63. January 21, 1922.
- Irrigating vegetables in New York. P. Work. New York. Department of
agriculture and markets. Bulletin no.110. Albany, N. Y., 1918.
149-155p.
- Irrigation - amount of water to use. J. W. Sanborn. Utah. Agricultur-
al experiment station. Bulletin no.29. Logan, Utah, 1894. 13p.
- Irrigation - when; quantity; how to apply. R. Newman. Pacific rural
press. v.109. p.387. March 28, 1925.
- Irrigation and agricultural practice in Arizona. R. H. Forbes. Arizona.
Agricultural experiment station. Bulletin no.63. Tucson, Ariz.,
1911. 83p.
- Irrigation and manuring studies: I. Effect of varying quantities of
irrigation water and manure on the growth and yield of corn, 1911-
1913. F. S. Harris. Utah. Agricultural experiment station. Bulle-
tin no. 133. Logan, Utah, 1914. 383-418p.
- Irrigation and manuring studies; II. Effect of varying quantities of
irrigation water and manure on the growth and yield of corn, 1911-
1916. F. S. Harris and D. W. Pittman. Utah. Agricultural ex-
periment station. Bulletin no.154. Logan, Utah, 1917. 29p.
- Irrigation and the protein content of wheat. J. S. Jones and others.
Idaho. Agricultural experiment station. Bulletin no. 109. Moscow,
Idaho, 1918. 43p.
- Irrigation as applied to citrus orchards. J. A. Dennis. California
citrograph. v.9. p.253+. May 1924.
- Irrigation experiment with alfalfa, potatoes, and wheat. Nevada.
Agricultural experiment station. Report, 1917. Reno, Nev.,
1918. 27-39p.
- Irrigation farming. H. A. Howes. Scientific agriculture. v.3.
p.294-295. April 1923.
- Irrigation farming; a handbook for the proper application of water in the
production of crops. Lucius M. Wilcox. New York, Orange Judd Co.,
1902. 494p.
- Irrigation farming in Alberta. C. F. Steele. Nor' West farmer. v.45.
p.7. May 5, 1926.

- Irrigation farming in New South Wales. A. N. Shepherd. Sydney,
A. J. Kent, government printer, 1925. 57p. New
South Wales. Department of agriculture. Farmers' bulletin no.148.
- Irrigation farming in Stanislaus County. D. J. Whitney. California
cultivator. v.83. p.412-413. May 23, 1936.
- Irrigation farming often turns on ways of applying water. Carl S. Sco-
field. U. S. Department of agriculture. Yearbook, 1927. Washington,
D. C., 1928. p.395-398. Separate no.1016.
- Irrigation for the market gardener. R. J. Otton. Market growers journal.
v.32. p.240. April 1, 1923.
- Irrigation in Alberta. E. E. Eischenauer. Scientific agriculture. v.16.
p.270-274. January 1936.
- Irrigation in cane growing. H. Edson. Sugar. v.29. p.511-512.
November 1927.
- Irrigation in Sind. T. F. Main. Agricultural journal of India. v.13.
p.653-659. October 1918.
- Irrigation methods. L. C. Bartels. Journal of the agriculture of
Victoria. v.26. p.594-598. October 1928.
- Irrigation observations in Ventura county citrus groves. L. T. Sharp.
California Citrograph. v.13. p.207. April 1928.
- Irrigation of alfalfa. S. Fortier. U. S. Department of agriculture.
Farmers' bulletin no.865. Washington, D. C., 1917. 40p.
- Irrigation of alfalfa. F. S. Harris and D. W. Pittman. Utah.
Agricultural experiment station. Bulletin no.180. Logan, Utah,
1921. 28p.
- Irrigation of alfalfa. W. L. Powers and W. W. Johnston. Oregon.
Agricultural experiment station. Bulletin no.189. Corvallis, Ore.,
1922. 36p.
- Irrigation of alfalfa in Imperial Valley. W. E. Packard. California.
Agricultural experiment station. Bulletin no.284. Berkeley, Cal.,
1917. 67-84p.
- Irrigation of alfalfa in Nevada. C. S. Knight. Nevada. Agricultural
experiment station. Bulletin no.93. Reno, Nevada, 1918. 18p.
- Irrigation of field crops in Nevada. C. S. Knight and G. Hardman. Nevada.
Agricultural experiment station. Bulletin no.96. Reno, Nev., 1919.
42p.

- Irrigation of grain. Agricultural Review. v.15. p.13.
April 1922.
- Irrigation of grain. W. W. McLaughlin. U. S. Department of agriculture. Farmers' bulletin no.863. Washington, D. C., 1917. 22p.
- Irrigation of oats. F. S. Harris and D. W. Pittman. Utah. Agricultural Experiment station. Bulletin no.167. Logan, Utah, 1919. 20p.
- Irrigation of peaches. L. D. Batchelor. Utah. Agricultural Experiment station. Bulletin no.142. Logan, Utah, 1916. 23p.
- Irrigation of plantains. R. J. D. Graham. Agricultural Journal of India. v.12. p.492-494. July 1917.
- Irrigation of potatoes. F. S. Harris. Utah. Agricultural Experiment station. Bulletin no.157. Logan, Utah, 1917. 20p.
- Irrigation of potatoes. W. L. Powers and W. W. Johnston. Oregon. Agricultural Experiment station. Bulletin no.173. Corvallis, Ore., 1920. 28p.
- Irrigation of potatoes. W. V. Shear. California cultivator. v.54. p.924. June 5, 1920.
- Irrigation of sugar beets. T. S. Harris. Utah. Agricultural Experiment station. Bulletin no.156. Logan, Utah, 1917. 24p.
- Irrigation of tobacco. W. A. R. Pollock. Queensland agricultural Journal. v.41. p.607-611. June 1934.
- Irrigation of wheat. F. S. Harris. Utah. Agricultural Experiment station. Bulletin no.146. Logan, Utah, 1916. 31p.
- Irrigation of wheat in Nevada. C. S. Knight. Nevada. Agricultural Experiment station. Bulletin no.92. Reno, Nev., n.d. 23p.
- Irrigation practice during the fall months. W. M. Mortz. California Citrograph. v.6. p.404. October 1921.
- Irrigation practice for baby lima beans. J. B. Walden. California cultivator. v.62. p.317. March 15, 1924.
- Irrigation practice in growing small fruits in California. W. A. Hutchins. California. Agricultural Experiment station. Circular no. 154. Berkeley, Cal., 1923. 34p.
- Irrigation profits prune growers. D. L. Kieffer. Pacific rural press. v.103. p.348. March 25, 1922.

- Irrigation requirements of crops. S. H. Beckett. Pacific rural press.
v.121. p.422-423. April 11, 1931.
- Irrigation requirements of the arid and semi-arid lands of the Columbia
River basin. S. Fortier and A. A. Young. U. S. Department of agri-
culture. Technical bulletin no.200. Washington, D. C., 1930. 55p.
- Irrigation requirements of the arid and semi-arid lands of the Pacific
slope basins. Samuel Fortier and Arthur A. Young. U. S. Department
of agriculture. Technical bulletin no.379. Washington, D. C.,
1933. 69p.
- Irrigation requirements of the arid and semi-arid lands of the Southwest.
Samuel Fortier and Arthur A. Young. U. S. Department of agriculture.
Technical Bulletin no.185. Washington, D. C., 1930. 68p.
- Irrigation, with special reference to the economic use of water. H. W.
Turpin. Journal of the department of agriculture of South Africa.
v.11. p.436-454. November 1925.
- Labor costs and seasonal distribution of labor on irrigated crops in Utah
valley. L. G. Connor. Utah. Agricultural experiment station.
Bulletin no.165. Logan, Utah, 1918. 24p.
- Legumes for non-irrigated farms. W. Kidder. Colorado. Agricultural
college. Extension service. Bulletin no.243A. Fort Collins, Colo,
1926. 12p.
- Little farm well-tilled. R. H. Forbes. Arizona. Agricultural experiment
station. Timely hints. No.133. Tucson, Arizona, 1918. 8p.
- Lure of the Southwest; advantages and disadvantages the settler will find.
S. F. Morse. Country Gentleman. v.81. p.1444. July 29,
1916.
- Maintaining the productivity of irrigated land. D. W. Pittman. Utah.
Agricultural experiment station. Bulletin no.188. Logan, Utah,
1924. 24p.
- Maize green fodder trials, 1918-19. G. G. St. C. Potts. Agricultural
Gazette of New South Wales. v.30. p.683-698. October 1919.
- Maize-growing on the Murrumbidgee irrigation area. H. Wanholtz.
Agricultural Gazette of New South Wales. v.27. p.533-541.
August 1916.
- Major problems in a study of the irrigation of rice by pumping. D. G.
Carter. Agricultural Engineering. v.6. p.37-40. February 1925.

- Management of irrigated grass pastures. J. S. Welch. Idaho. Agricultural experiment station. Bulletin no.95. Moscow, Idaho, 1917. 17p.
- Management of irrigated land. Fritz Knorr. Nebraska. Agricultural experiment station. Bulletin no.152. Lincoln, Nebraska, 1915. 24p.
- Management of sandy soils under irrigation. H. K. Dean. Oregon. Agricultural experiment station. Bulletin no.177. Corvallis, Ore., 1921. 26p.
- Mark Bennett writes about Chowchilla. Irrigation age. v.33. p.208-209. November 1918.
- Methodes culturales employees par les immigrants italiens dans le Sud-ouest. H. Paon. Academie d'agriculture de France. Comptes rendus. v.13. p.522-527. May 4, 1927.
- Methods and costs of land leveling with tractors. F. N. Cronholm. Engineering and contracting. v.49. p.590-591. June 12, 1918.
- Methods for increasing the crop producing power of irrigation water. J. A. Widtsee and L. A. Merrill. Utah. Agricultural experiment station. Bulletin no.118. Logan, Utah, 1912. 125-164p.
- Methods of preparing land and applying irrigation water. W. L. Powers. Oregon. Agricultural college. Extension service. Circular no.42. Corvallis, Oregon, 1917. 6p.
- Mine of information; Belle Fourche valley project. H. Champlin. Dakota farmer. v.39. p.1308. September 1, 1919.
- New Deal in Reclamation. B. V. Wilcox. Country gentleman. v.89. p.3-4. June 28, 1934.
- Now spirit of the projects. M. C. Cutting. Country gentleman. v.92. p.24-25. March 1927.
- Nitrous nitrogen in irrigated soils. J. E. Greaves and others. Soil science. v.3. p.149-154. February 1917.
- Note on the economical use of water in irrigation and the measurement of stream and irrigation furrow discharges. Office of the director of irrigation. Cape Town, 19th July, 1907. Presented to both houses of Parliament by command of his excellency the governor, 1907. Cape Town, Cape times limited, Government printers, 1907. 12p.

- Notes on the Bulawayo municipal farm; methods of irrigation and working a heavy clay soil. R. Dickson. Rhodesia agricultural journal. v.31. p.189-194. March 1934.
- Notes on the working of a land development scheme in the north-central province. W. A. De Silva. Tropical agriculture. v.73. p.78-89. August 1929.
- Oats under irrigation, 1918. E. Furby. Agricultural gazette of New South Wales. v.30. p.282-284. April 1919.
- Optimum moisture conditions for young lemon trees on a loam soil. L. W. Fowler and C. B. Lipman. California. University. Publications in agriculture science. v.3, no.2. Berkeley, Cal., 1917. 25-36p.
- Orchard irrigation; need for careful watering. F. M. Read. Journal of the Department of agriculture of Victoria. v.28. p.653-655. November 1930.
- Organic matter problems in irrigated soils. P. S. Burgess. American society of agronomy. Journal. v.21. p.97-978. October 1929.
- Organized rural communities; hearings before the Committee on irrigation and reclamation, House of Representatives; seventy-first Congress, second session on H. R. 1677, H. R. 8880, a bill to authorize the creation of organized rural communities to demonstrate the benefits of planned settlement and supervised rural development. W. M. Whittington and W. C. Lankford. Washington, D. C., Government printing office, 1930. 183p.
- Overproduction in the desert. D. H. Williams. Country gentleman. v.82. p.1312. August 25, 1917.
- Pork production on irrigated lands in western Nebraska. J. A. Holden. Nebraska. Agricultural experiment station. Bulletin no.159. Lincoln, Nebraska, 1917. 31p.
- Potato and its uses of soil moisture under irrigation. L. Bowen. Nebraska. Board of agriculture and inspection. Report, 1935. Lincoln, Nebraska, 1936. p.651-657.
- Potato culture under irrigation. W. Stuart and others. U. S. Department of agriculture. Farmers' bulletin no.953. Washington, D. C., 1922. 24p.
- Potatoes in irrigation land. E. V. Wilcox. Country gentleman. v.85. p.20. December 25, 1920.

- Practical information for beginners in irrigation. S. Fortier.
U. S. Department of agriculture. Farmers' bulletin no. 864. Washington,
D. C., 1917. 38p.
- Practical irrigation-farming in Australia, with special reference to fruit
and fodder crops. A. H. Makinson. Agricultural Gazette of New South
Wales. v. 27. p. 43-54, 489-504. January, July, 1916.
- Practical suggestions on irrigation and drainage. D. H. Anderson.
Irrigation age. v. 33. p. 113-116. June 1918.
- Prairies en ados. P. Larue. La Nature. v. 58. p. 128.
February 1, 1930.
- Preparing land for irrigation. R. P. Teele. U. S. Department of agri-
culture. Yearbook, 1903. Washington, D. C., 1904. p. 239-
250. Separate no. 318.
- Preparing land for irrigation and methods of applying water. U. S.
Department of agriculture. Office of experiment stations. Bulletin
no. 145. Washington, D. C., 1905. 84p.
- Preparing six hundred acres of land for irrigation. F. W. Herron. En-
gineering news record. v. 82. p. 337-339. February 13, 1919.
- Present outlook for irrigation farming. C. S. Scofield. U. S. Depart-
ment of agriculture. Yearbook, 1911. Washington, D. C., 1912.
p. 371-382. Separate No. 576.
- Problems of an irrigation farmer. C. S. Scofield. U. S. Department of
agriculture. Yearbook, 1909. Washington, D. C., 1910.
p. 197-208. Separate No. 505.
- Problems of an irrigation farmer. A. R. Williams. Farm Engineering.
v. 3. p. 193. March 1916.
- Problems of irrigation farming. C. W. Skinner. Rural New Yorker.
v. 76. p. 871. July 14, 1917.
- Producing lucerne hay under irrigation conditions. F. G. Chorley and F.
Chaffey. Agricultural Gazette of New South Wales. v. 32. p. 560-
564, 617-620. August - September 1921.
- Production of alfalfa in southern Idaho. L. C. Aicher. Idaho.
Agricultural Experiment Station. Bulletin no. 101. Moscow, Idaho,
1917. 20p.
- Production of cereals under irrigation in Washington, H. P. Singleton.
Washington. Agricultural experiment station. Bulletin no. 240.
Pullman, Wash., 1930. 20p.

- Production of dry matter with different quantities of irrigation water.
J. A. Widtsoe. Utah. Agricultural experiment station.
Bulletin no. 116. Logan, Utah, 1912. 64p.
- Profits in farming on irrigated areas in Utah Lake valley. E. H. Thomson
and H. M. Dixon. U. S. Department of agriculture. Department
bulletin no. 117. Washington, D. C., 1914. 21p.
- Progress report of cooperative irrigation experiments at California
university farm, Davis, Cal., 1909-1912. S. H. Beckett. U. S.
Department of agriculture. Department bulletin no. 10. Washington,
D. C., 1913. 21p.
- Protein content of wheat grown with irrigation. J. S. Jones and others.
Journal of agricultural science. v. 10. p. 290-332. July 1920.
- Quantite d'eau a employer aux irrigations. B. Ganossis. Journal d'
agriculture pratique. v. 57. p. 256-258. March 26, 1932
- Reclamation from the viewpoint of the settler. E. Gillette.
Irrigation age. v. 31. p. 119-121. June 1916.
- Relation between quantity of irrigation water used and quantity of crop
produced. J. A. Widtsoe. Adaptation of methods of applying water
to soils. S. T. Harding. Uniformity of distribution of moisture
in soils. P. E. Fuller. Pan American scientific congress.
Proceedings, 1915. Washington, D. C., 1917. p. 107-121, 121-
130, 169-187.
- Relation of crop yields to quantity of irrigation water in southwestern
Kansas. G. S. Knapp. Kansas. Agricultural experiment station.
Bulletin no. 228. Manhattan, Kan., 1922. 29p.
- Relation of irrigation to livestock production. R. P. Royce.
California cultivator. v. 58. p. 76. January 21, 1922.
- Relation of soil moisture to orchard irrigation practice. S. Fortier.
California. State horticultural commission. Bulletin. v. 8.
p. 361-367. July 1919.
- Relation of weather to crops and varieties adapted to Arizona conditions.
A. J. McClatchie and others. Arizona. Agricultural experiment
station. Bulletin no. 78. Tucson, Ariz., 1916. 45-118p.
- Relations between crop yields and precipitation in the Great Plains area;
crop rotations and tillage methods. E. C. Chilcott. U. S.
Department of agriculture. Miscellaneous circular no. 81.
Washington, D. C., 1931. 163p.
- Removal of seepage waters by plant growth. F. R. Arndt. Journal of
the Department of agriculture of South Australia. v. 39.
p. 1316-1322. June 1936.

- Report of the duty of water committee of the irrigation division on the consumptive use of water in irrigation. American society of civil engineering. Transactions. v.94. p.1349-1399. 1930.
Report proposes detailed definitions of consumptive use of water in irrigation; also calls attention to differences between basic meaning of consumptive use and its application to farm, project, and valley; common difficulties in making dependable determination are enumerated and discussed; experimental observations of consumptive use of water in typical irrigated valleys of West are reported.
- Rice farm irrigation systems in Louisiana, 1929. R. J. Saville.
Louisiana. Agricultural experiment station. Bulletin no.216. Baton Rouge, La., 1930. 19p.
- Right way to irrigate: Results of 1901. J. A. Widtsoe and W. W. McLaughlin. Utah. Agricultural experiment station. Bulletin no.86. Logan, Utah, 1903. 55-101p.
- Salts injurious to vegetation and their relationship to the irrigation of arid and semi-arid regions. A. J. Perkins. International review of the science and practice of agriculture. v.9. p.786-787. July 1918.
- Settlement of irrigated lands. C. S. Scofield. U. S. Department of agriculture. Yearbook, 1912. Washington, D. C., 1911. p.483-494.
- Sheep industry on the Minidoka Reclamation project. E. F. Rinehart. U. S. Department of agriculture. Department bulletin no.573. Washington, D. C., 1917. 28p.
- Sheep on irrigated farms in the northwest. S. O. Jayne. U. S. Department of agriculture. Farmers' bulletin no.1051. Washington, D. C., 1919. 32p.
- Shoshone irrigation project. T. S. Parsons. Dairy farmer. v.17. p.731. August 1, 1919.
- Small grains for irrigated farms in Colorado. W. Kidder. Colorado. Agricultural college. Extension service. Bulletin no.240A. Fort Collins, Colo., 1926. 11p.
- Some aspects of irrigation farming in central Otago. R. B. Tennent. Journal of agriculture of New Zealand. v.38. p.149-153. March 1929.
- Some suggestions for more profitable farming on the Umatilla irrigation project - Oregon. Oregon. Agricultural college. Extension service. Corvallis, Ore., n.d. 12p.

- Some types of irrigation farming in Utah. E. B. Brossard. Utah.
Agricultural Experiment Station. Bulletin no.177. Logan, Utah,
1920. 140p.
- Sowing permanent crops; preparing the ground. L. C. Bartels. Journal
of the Department of Agriculture of Victoria. v.26. p.261-267.
May 1928.
- Status of farming in the lower Rio Grande irrigated district of Texas.
R. E. Willard. U. S. Department of Agriculture. Department Bulletin
no.665. Washington, D. C., 1918. 24p.
- Stimulation of food production under reclamation projects: Hearings before
the House Committee on irrigation of arid lands of H. R. 2913.
Washington, D. C., Government printing office, 1917. 6 parts.
- Study in intensive farming near Poona under the canal irrigation. B. S.
Patel and H. M. Desai. Bombay. Department of Agriculture.
Bulletin no.164. Poona, Bombay, 1931. 85p.
- Study of land settlement in Wyoming. California Commonwealth Club.
Transac. v.11. p.461-465. December 1916.
- Sub-irrigation farming. J. C. Pridmore. Field illustrated. v.28.
p.86. February 1918.
- Sugar-beet growing under irrigation. C. O. Townsend. U. S. Department
of Agriculture. Farmers' Bulletin no.567. Washington, D. C.,
1924. 32p.
- Sugar beets under irrigation in Washington. T. J. Sievers and E. G.
Schafer. Washington. Agricultural Experiment Station. Bulletin no.
154. Pullman, Wash., 1919. 41p.
- Sunshine valleys of the western slope. C. J. Blanchard. Irrigation
age. v.33. p.21-22. March 1918.
- Surface and sub-surface irrigation. C. H. Missley. New Jersey agri-
culture. v.13. p.6. July 1931.
- Survey of irrigation practices in the rice industry of Cebu, Laguna.
A. L. Teodoro and E. Bataclan. Philippine agriculturist. v.20.
p.93-100. July 1931.
- Survey of production of irrigation farms on Galloway Flat, Central Otago.
G. G. Calder. New Zealand Journal of Agriculture. v.52.
p.44-47. January 1936.

- \$2,776 from one acre under irrigation. Market growers Journal. v.28.
p.305. May 1, 1921.
- Twenty-eight years of irrigation experiments near Logan, Utah, 1902-29,
inclusive. D. W. Pittman and G. Stewart. Utah. Agricultural
Experiment station. Bulletin no.219. Logan, Utah, 1930. 15p.
- Uncompahgre valley irrigation project. Washington, D. C., U. S.
Reclamation service, n.d. 23p.
- Under the ditch in Texas. E. Hough. Outing. v.53.
p.604-616. February 1909.
- Unproductive soils, their cause and management. A. E. Vinson. Arizona.
Agricultural Experiment station. Timely Hints no.134. Tucson,
Arizona, 1918. 8p.
- Use and duty of water in the Salt River valley. J. C. Marr. Arizona.
Agricultural experiment station. Bulletin no.120. Tucson,
Arizona, 1927. 57-97p.
- Use of irrigation water on farm crops. A. E. Palmer. Canada.
Department of agriculture. Bulletin no.125. Ottawa, Canada,
1929. 51p.
- Use of small water supplies for irrigation. S. Fortier. U. S.
Department of agriculture. Yearbook, 1907. Washington, D. C.,
1908. p.409-424.
- Using your head for tillage. D. J. Whitney. Pacific rural press.
v.111. p.601. May 8, 1926.
- Utilization of irrigated field crops for hog pasturing. F. D. Farrell.
U. S. Department of agriculture. Department Bulletin no. 752.
Washington, D. C., 1919. 37p.
- Variations in moisture and nitrate content of field soils receiving
different methods of cultivation. R. P. Bartholomew. Arkansas.
Agricultural Experiment station. Bulletin no.270. Fayetteville,
Arkansas, 1932. 24p.
- Vegetative succession under irrigation. J. F. MacBride. Journal of
agricultural research. v.6. p.741-760.
August 7, 1913.
- Visit to Cores farm, Shorwa; an irrigation scheme and its uses. W. E.
Moade. Rhodesia agricultural Journal. v.26. p.995-999.
October 1929.

- Water economy of dry land crops. Thomas H. Kearney and H. L. Shantz.
U. S. Department of agriculture. Yearbook, 1911. Washington, D. C.,
1912. p.351-362. Separate no.574.
- Water penetration in the gumbo soils of the Belle Fourche reclamation
project. Irrigation age. v.32. p.26. December 1916.
- Water saving experiments. O. T. Faulmer. Agricultural Journal of
India. v.14. p.245-255. April 1919.
- What to plant on an irrigation block. F. Lewis. Journal of the Depart-
ment of agriculture of South Australia. v.22. p.674-676.
March 1919.
- Wet farming in the Delta Region. J. H. Currie. Pacific Rural press.
v.121. p.423. April 11, 1931.
- Wheat. R. L. Stewart. New Mexico. Agricultural Experiment station.
Bulletin no.109. State College, N. M., 1918. 29p.
- Wheats for hay under irrigation at Yanco Experiment farm. J. M. Pitt.
Agricultural Gazette of New South Wales. v.27. p.95-96.
February 1916.
- Wheats for hay under irrigation at Yanco Experiment farm. J. M. Pitt.
Agricultural Gazette of New South Wales. v.28. p.311-316.
May 1917.
- Where the ditch conquers drought. T. L. Townsend. Nor' west farmer.
v.51. p.6-7. March 5, 1932.
- Whole vs. cut potato tubers for planting on irrigated land. L. C. Aicher.
American society of agronomy. Journal. v.9. p.217-223.
May 1917.
- Whole vs. cut potato tubers for planting on irrigated land. J. S. Welch.
American society of agronomy. Journal. v.9. p.224-230.
May 1917.
- Winter grains. T. S. Parson. Wyoming. Agricultural Experiment station.
Bulletin no.116. Laramie, Wyo., 1917. 39-52p.
- With the irrigation farmer. S. Fortier. U. S. Department of Agri-
culture. Yearbook, 1920. Washington, D. C., 1921. p.203-216.
Separate no.839.
- Work of the Belle Fourche reclamation project experiment farm in 1916.
B. Aune. Washington, D. C., U. S. Bureau of plant industry, 1917.
28p.

- Work of the Belle Fourche reclamation project experiment farm in 1917.
E. Aune. Washington, D. C., U. S. Department of Agriculture, 1918.
31p.
- Work of the Belle Fourche reclamation project experiment farm in 1918.
E. Aune. U. S. Department of Agriculture. Circular no. 60.
Washington, D. C., 1919. 34p.
- Work of the Huntley reclamation project experiment farm in 1916. D.
Hansen. Washington, D. C., U. S. Bureau of Plant Industry, 1917.
25p.
- Work of the Huntley reclamation project experiment farm in 1917. D.
Hansen. Washington, D. C., U. S. Department of Agriculture, 1918.
29p.
- Work of the Scottsbluff reclamation project experiment farm in 1916. F.
Knorr. Washington, D. C., U. S. Department of Agriculture, 1918. 18p.
- Work of the Scottsbluff reclamation project experiment farm in 1917. J. A.
Holden. Washington, D. C., U. S. Department of Agriculture, 1918. 28p.
- Work of the Truckee Carson reclamation project experiment farm in 1916.
F. B. Headley. Washington, D. C., U. S. Department of Agriculture,
1918. 18p.
- Work of the Unatilla reclamation project experiment farm in 1915 and 1916.
R. W. Allen. Washington, D. C., U. S. Department of Agriculture, 1917.
37p.
- Work of the Unatilla reclamation project experiment farm in 1917. R. W.
Allen. Washington, D. C., U. S. Department of Agriculture, 1919. 30p.
- Work of the Yuma reclamation project experiment farm in 1916. R. E. Blair.
Washington, D. C., U. S. Department of Agriculture, 1918. 40p.
- Work of the Yuma reclamation project experiment farm in 1917. R. E. Blair.
Washington, D. C., U. S. Department of Agriculture, 1918. 45p.
- Yields of crops with different quantities of irrigation water. J. A.
Widtsoe and L. A. Merrill. Utah. Agricultural Experiment Station.
Bulletin no 117. Logan, Utah, 1912. 67-119p.

IRRIGATION WATER.

- Agua de desague que se utiliza para el riego. La Hacienda. v.25.
p.539. December 1930.

- Alkali content of irrigation water. R. Stewart and C. T. First. Utah. Agricultural Experiment station. Bulletin no. 147. Logan, Utah, 1913. 18p.
- Alkali problem in irrigation. Carl S. Scofield. U. S. Smithsonian institution. Annual report, 1921. Washington, D. C., 1922. p. 213-225.
- Alkali soils, irrigation waters. G. S. Fraps. Texas. Agricultural Experiment station. Bulletin no. 130. College station, Texas, 1910. 28p.
- Alkali water problem. W. P. Kelley. California Citrograph. v. 5. p. 395. October 1920.
- Amount of salt in irrigation water injurious to rice. F. C. Quereau. Louisiana. Agricultural Experiment station. Bulletin no. 171. Baton Rouge, La., 1920. 14p.
- Analysis of irrigating water and the examinations of soils for alkali; irrigation investigations. Arizona. Agricultural Experiment station. Report, 1916. Tucson, Arizona, 1916. p. 296-310.
- Analysis of the utilization of irrigation water in typical Punjab canals. D. H. Wilsdon and H. N. Lal. Punjab irrigation research institute. Research publication. v. 3, No. 1. Lahore, India, 1930. 10p.
- Analysis of water and interpretation of the results. J. K. Haywood. U. S. Department of agriculture. Yearbook, 1902. Washington, D. C., 1903. p. 283-294. Separate no. 272.
- Analysis of waters for irrigation. G. L. Holter and John Fields. Oklahoma. Agricultural Experiment station. Bulletin no. 38. Stillwater, Oklahoma, 1899. 7p.
- Apparatus for adding gypsum to irrigation water. C. S. Scofield and E. W. Knight. U. S. Department of agriculture. Circular no. 38. Washington, D. C., 1928. 5p.
- Beiträge zur berieselungsfrage der wiesen. Veränderungen und wirkungen des rieselwassers bei der berieselung. F. J. König. Landwirtschaftliche jahrbücher. v. 11. p. 158-212. 1882.
- Black soil under irrigation with bore water. R. W. McDiarmid. Agricultural gazette of New South Wales. v. 35. p. 845-854. December 1924.
- Boron content and salinity of irrigation waters in south California. C. S. Scofield. California Citrograph. v. 16. p. 555. October 1931.

- Boron content of oranges. C. S. Scofield and L. V. Wilcox. Science.
v.71. p.542-543. May 23, 1930.
- Boron in irrigation water may hurt citrus and walnut orchards. C. S.
Scofield. U. S. Department of Agriculture. Yearbook, 1930.
Washington, D. C., 1930. p.141-144. Separate no. 1136.
- Boron in irrigation waters. C. S. Scofield and L. V. Wilcox. U. S.
Department of Agriculture. Technical bulletin no. 264. Washington,
D. C., 1931. 65p.
- Boron in soils and irrigation waters and its effect on plants, with
particular reference to the San Joaquin Valley of California. F. M.
Eaton. U. S. Department of Agriculture. Technical bulletin no. 448.
Washington, D. C., 1935. 131p.
- Boron in the soils and irrigation waters of southern California and its
relation to citrus and walnut culture. W. P. Kellogg and S. M.
Brown. California. Agricultural experiment station. Hilgardia.
v.3, no.16. p.445-458. 1928.
- Brief method for chemical examination of irrigation waters and alkali
soils. P. L. Hibbard. Soil science. v.25. p.351-365.
May 1928.
- Capacity of irrigation and drainage wells. H. E. Hurdock. Montana.
Agricultural experiment station. Bulletin no. 182. Bozeman, Mont.,
1925. 16p.
- Case of salt injury to an orange grove. G. Surr. California citro-
graph. v.12. p.3. November 1926.
- Certain effects under irrigation of copper compounds upon crops. R. H.
Forbes. Appendix: Methods of analysis, with collaboration of E. E.
Free and W. H. Ross. Arizona. Agricultural experiment station.
Bulletin no. 80. Tucson, Arizona, 1916. 145-238p.
- Character of the groundwater resources of Arizona. C. N. Catlin.
Arizona. Agricultural experiment station. Bulletin no. 114.
Tucson, Arizona, 1926. 173-293p.
- Chemical characteristics of the waters of the Middle Rio Grande conser-
vancy district. J. D. Clark and H. Mauger. New Mexico. University.
bulletin. Chemistry series. v.2, no.2. Albuquerque, N. M.,
1932. 35p.
- Chemical composition of crops as affected by different quantities of
irrigation water. J. A. Widtsoe and Robert Stewart. Utah. Agri-
cultural experiment station. Bulletin no. 120. Logan, Utah, 1912.
205-240p.

- Colorado irrigation waters and their changes. W. P. Meaddon. Colorado. Agricultural experiment station. Bulletin no.82. Fort Collins, Colo., 1903. 77p.
- Colorado River desilting at Imperial dam. Engineering news record. v.115. p.538-541. October 17, 1935.
- Colorado River silt problem, the dredge "Imperial" and irrigation in Imperial valley, Calif. F. C. Finkle. Engineering news. v.66. p.695-699. December 14, 1911. Map and account of difficulties, with record of operation of the dredge and specifications from which it was constructed.
- Comparative effect of irrigation water and of rain to lemon yield. C. A. Jensen. California citrograph. v.14. p.450-451. September 1929.
- Composition of the irrigation waters of Utah. J. E. Greaves and C. T. Hirst. Utah. Agricultural experiment station. Bulletin no.163. Logan, Utah, 1918. 43p.
- Conservation of soil moisture and economy in the use of irrigation water. E. W. Hilgard and R. H. Koughbridge. Indian forester. v.24. p.471-478. December 1898. Considers the amount of water required by crops, the most economical mode of using irrigation water, and the conservation of the moisture imparted to the soil.
- Delivery of irrigation water. W. A. Hutchins. U. S. Department of agriculture. Technical bulletin no. 47. Washington, D. C., 1928. 48p.
- Desilting Colorado River water. Canadian engineer. v.69. p.12. December 24, 1935.
- Desilting eight billion gallons daily of Colorado river water. Public works. v.66. p.30. September 1935.
- Determination of the duty and control of irrigation water. G. H. W. Barnhart. Planter. v.77. p.487-490. December 18, 1926.
- Dissemination of weed seeds by irrigation water in Alberta. A. Hopo. Scientific agriculture. v.7. p.268-276. March 1927.
- Distribution of soluble nitrogen fertilizers in irrigation water. D. D. Waynick. California citrograph. v.15. p.104. January 1930.
- Drainivasser und salznoraste der rieselfelder der stadt Odessa. Th. Selivanoff. Landwirtschaftlichen versuchsstationen. v.55. p.475-478. 1901.

- Duty of water. J. B. Cox. Planter. v.77. p.427-429. November 27, 1926.
- Duty of water. N. King. Planter. v.80. p.3-5,24. January 7 - 14, 1928.
- Economical use of irrigation water. W. L. Powers. Oregon. Agricultural experiment station. Bulletin no.140. Corvallis, Ore., 1917. 79p.
- Economical use of irrigation water based on tests. Harry S. Clyde, Willard Gardner and Orson W. Israelson. Engineering news record. v.91. p.548-552, 642-645. October 4, 18, 1923. Solution of problem considered when water is available at given price, land plentiful, water limited and land semi-irrigated.
- Effect of irrigation water and manure on the nitrates and total soluble salts of the soil. F. S. Harris and N. I. Dutt. U. S. Department of agriculture. Journal of agricultural research. v.8. p.333-350. February 26, 1917.
- Effect of salt water on rice. G. S. Fraps. Texas. Agricultural experiment station. Bulletin no.122. College station, Texas, 1909. 6p.
- Effect of salt water on rice. G. S. Fraps. Texas. Agricultural experiment station. Bulletin no.371. College station, Texas, 1927. 10p.
- Effect of several types of irrigation water on the ph value and freezing point depression of various types of soils. D. R. Hoagland and A. W. Christie. California. University. Publication in agricultural science. v.4, no.6. Berkeley, Cal., 1919. 141-158p.
- Effects of alkali on citrus trees. W. P. Kelley and H. J. Thomas. California. Agricultural experiment station. Bulletin no. 318. Berkeley, Cal., 1920. 305-337p.
- Effects of effluents from rubber factories on padi and their treatment. B. J. Eaton. Malayan agricultural journal. v.14. p.299. September 1926.
- Effects of irrigation water on fertility. J. E. Greaves. Better fruit. v.13. p.9. July 1923.
- Examination of irrigation waters. D. W. Hilgard. California. Agricultural experiment station. Bulletin no.7. Berkeley, Cal., 1884. 3p.
- Experimental studies on the relation of irrigation-water temperature to the growth and yield of rice plants: abstract. S. Kikawa and K. Tojo. Pacific science congress. Proceedings, 1929. v.4. p.603-606. 1930.

- Factors affecting economical use of water in irrigation. W. L. Powers.
Engineering and Contracting. v.48. p.493-494.
December 12, 1917.
- Flow of water in riveted steel and analogous pipes, F. C. Scobey. U. S.
Department of Agriculture. Technical bulletin no.150. Washington,
D. C., 1930. 136p.
- Forecasting water supply; snow surveys in Utah. G. D. Clyde. Civil
Engineering. v.2. p.610-614. October 1932.
- Generalidades acerca del valor del agua. M. Moreno. Revista de
Agricultura. v.10. p.33. March 1929.
- Growth failure on soils irrigated with artesian water. W. T. McGeorge.
Planter. v.77. p.407. November 20, 1926.
- Head loss in flow through fine screens. M. R. Lewis. Agricultural
Engineering. v.13. p.144. June 1932.
- Help for water shortage may lie in reclaiming sewage waste. California
Photograph. v.16. p.498. September 1931.
- How irrigation water behaves underground. R. Newman. Pacific Rural
Press. v.108. p.78. July 26, 1924.
- Huge irrigation project in Texas embodies many unique features. A.
Callah. Manufacturers Record. v.98. p.49-50. September 4,
1930.
- Hydro power provides revenue for irrigation works. H. A. Brown. Power.
v.74. p.663-665. November 10, 1931.
- Importance of measuring irrigation water. R. L. Parshall. California
Cultivator. v.81. p.400. August 4, 1934.
- Increase the duty of water. California Cultivator. v.56. p.204.
February 12, 1921.
- Increasing efficiency of irrigation water. W. L. Powers. Better
Fruit. v.26. p.5-6. September 1931.
- Influence of head on the movement of water in Gila clay and Gila clay
loam. C. W. Botkin. Agricultural Engineering. v.11.
p.209-212. June 1930.
- Influence of irrigation on the composition of the soil. J. E. Greaves.
American Society of Agronomy. Journal. v.14. p.207-212.
May 1922.

- Influence of irrigation water and manure on the composition of the corn kernel. J. E. Greaves and D. H. Nelson. Journal of agricultural research. v.31. p.183-189. July 15, 1925.
- Influence of irrigation water on the composition of grains and the relationship to nutrition. J. E. Greaves and E. G. Carter. International review of the science and practice of agriculture. n.s., v.2. p. 364-365. April 1924.
- Influence of manure and irrigation water on the carbon, phosphorus, calcium and magnesium of the soil. C. T. Hirst and J. E. Greaves. Soil science. v.19. p.87-97. February 1925.
- Instructions for determining in the field the salt content of alkali waters and soils. Milton Whitney. U. S. Department of agriculture. Division of soils. Circular no. 6. Washington, D. C., 1900. 9p.
- Investigation of the rise of water table in the upper Chenab canal area, Punjab. E. M. Taylor, J. K. Makhotra and M. L. Mehta. India. Punjab irrigation research institute. Research publication. v.1, no.4. Lahore, India, 1933. 39p.
- Iron, chlorine, and sulfur contents of grain and the influence of irrigation water upon them. J. E. Greaves and D. H. Nelson. Soil science. v.19. p.325-330. April 1925.
- Irrigating sediments and their effects upon crops. R. H. Forbes. Arizona. Agricultural experiment station. Bulletin no. 53. Tucson, Ariz., 1906. 55-98p.
- Irrigating water. Roger Castle Griffin. In his Technical methods of analysis. 1927. p.727-729.
- Irrigation by gravitation channels from the subsoil water. J. E. Hilton. Indian engineering. v.23. p.204-205. March 26, 1898. Showing the advantage can be taken of the high level at which the subsoil water stands in some of the submontane districts to convey the water by gravitation to the surface.
- Irrigation, pumping and liquid manure distribution. R. Dorlase Matthews. In his Electro-farming. 1928. p.269-277.
- Irrigation, water supplies, chiefly wells. Jamaica agricultural society. Journal. v.34. p.53. February 1930.
- Irrigation water as a factor in the dissemination of weed seeds. G. E. Egginton and W. W. Robbins. Colorado. Agricultural experiment station. Bulletin no. 253. Fort Collins, Colo., 1920. 25p.

- Irrigation water as medium for distribution of soluble fertilizers. J. A. Frizer. California citrograph. v.16. p.98. January 1931.
- Irrigation water requirement studies of citrus and avocado trees in San Diego County, California, 1926 and 1927. S. H. Beckett and others. California. Agricultural experiment station. Bulletin no.489. Berkeley, Cal., 1930. 51p.
- Irrigation waters and their effects, W. P. Hadden. Colorado. Agricultural experiment station. Bulletin no.83. Fort Collins, Colo., 1903. 16p.
- Irrigation with fresh water from the sea. E. J. Moynihan. Scientific american supplement. v.79. p.84-85. February 6, 1915.
- Land and river waters of the Great Valley, and their quality for irrigation purposes. Eugene Woldemar Hilgard. U. S. Department of agriculture. Report no. 20. Washington, D. C., 1882. p.50-53.
- Let's put our waste water to work. J. Klein. California cultivator. v.77. p.131+. August 15, 1931.
- Lignite of North Dakota and its relation to irrigation. F. A. Wilder. Washington, D. C., Government printing office, 1905. 59p. U. S. Geological survey. Water supply and irrigation paper no.117.
- Lysimeter investigations: composition of rainwater at Geneva, N. Y., for a ten-year period. R. C. Collison and J. H. Mensching. New York. Agricultural experiment station. Technical bulletin no.193. Geneva, N. Y., 1932. 19p.
- Make your irrigation water do full duty. Pacific rural press. v.107. p.371. March 15, 1924.
- Measurement of irrigation water. G. D. Clyde. Utah. Agricultural college. Extension Division. Circular no.69. Logan, Utah, 1935. 8p.
- Measurement of irrigation water. G. D. Clyde. Utah. Agricultural experiment station. Circular no.77. Logan, Utah, 1929. 39p.
- Measuring device for irrigation experiments. W. M. Fleming. Scientific agriculture. v.16. p.619-620. July, 1936.
- Measuring the salinity of irrigation waters and of soil solutions with the Wheatstone bridge. C. S. Scofield. U. S. Department of agriculture. Circular no.232. Washington, D. C., 1932. 16p.

- Measuring water in irrigation channels. R. L. Parshall. U. S. Department of Agriculture. Farmers' bulletin no. 1683. Washington, D. C., 1932. 17p.
- Method of alkali control in the citrus orchard. J. A. Dennis. California Citrograph. v. 16. p. 462. August 1931.
- Method of analysis used in the Rubidoux laboratory, Riverside, California. U. S. Department of Agriculture. Bureau of plant industry. Division of western irrigation agriculture. Washington, D. C., 1933. 17p. mimeographed.
- Methods for increasing the crop producing power of irrigation water. J. A. Widtsoe and L. A. Merrill. Utah. Agricultural Experiment station. Bulletin no. 118. Logan, Utah, 1912. 125-164p.
- Methods of alleviating water shortages on irrigation projects. G. D. Clyde. Agricultural engineering. v. 13. p. 37-41. February 1932.
- Methods of testing and significance of boron in water. R. L. Derby. American water works association. Journal. v. 28. p. 1449-1455. October 1936.
- More water for the San Joaquin Valley. S. S. Green. California countryman. v. 16. p. 8-9. September 1929.
- Need for salt tolerance project. California cultivator. v. 82. p. 482. August 17, 1935.
- Net requirements of crops for irrigation water in the Mesilla valley, New Mexico. D. W. Bloodgood. New Mexico. Agricultural Experiment station. Bulletin no. 149. State College, N. M., 1925. 48p.
- Nitrogen content of rainwater. H. H. Fimmiell and H. W. Houghton. Panhandle. Agricultural Experiment station. Bulletin no. 34. Goodwell, Okla., 1932. 8p.
- On the distribution of water for irrigation by measurement. R. G. Kennedy. India. Punjab. Public Works department. Irrigation branch. Paper no. 12. Lahore, India, 1906. 32p.
- Outline of results from the study of the irrigation water of rice at Canton. Y. Ting. Lingnan science journal. v. 9. p. 213-214. October 1930.
- Phosphorus, potassium and nitrogen content of the waters of the intermountain region. J. E. Greaves and C. T. Hirst. Journal of industrial and engineering chemistry. v. 11. p. 451-453. May 1919.

- Policies governing the ownership of return waters from irrigation. W. A. Hutchins. U. S. Department of Agriculture. Technical bulletin no. 439. Washington, D. C., 1931. 48p.
- Production of dry matter with different quantities of irrigation water. J. A. Widtsoe. Utah. Agricultural Experiment Station. Bulletin no. 116. Logan, Utah, 1912. 64p.
- Prospective irrigation water supply - 1923. H. S. Martin. Pacific Rural press. v.105. p.553. May 5, 1923.
- Protection of an impounded water supply from oil fields, drainage and irrigation water; Wichita Falls, Texas. H. T. Veatch, Jr. American Water works Association. Journal. v.21. p.955-962. July 1929.
- Pump testing service benefits consumers. Electrical West. v.73. p.65. December 1934.
- Quality of irrigation water in relation to land reclamation. C. S. Scofield and E. D. Headley. Journal of Agricultural research. v.21. p.265-278. May 16, 1921.
- Rates for irrigation water and quantity used for various crops. H. L. Miller. Engineering and contracting. v.49. p.451-452. May 8, 1918.
- Rational distribution of irrigation water. Planter. v.82. p.166. March 2, 1929.
- Recovery of return and seepage waters in California. T. R. Simpson. Engineering news record. v.93. p.751-754. November 6, 1924. Applications for right to divert return flow are frequent; area irrigated with such water is rapidly increasing.
- Relative value of irrigating waters. Herman Stabler. Engineering news. v.64. p.33-34. July 14, 1910. Discussion of the alkali problem, giving tables and information based on irrigation practice in the United States.
- Removal of plant nutrients by irrigation from soils in the Canary Isles. A. H. Lewis and O. Neave. International congress of soil science. Transactions, 3d. v.1. p.407-409. 1935.
- Return-flow water from irrigation developments. R. I. Meeker. Engineering News. v.89. p.105-108. July 20, 1922.
- Return of seepage water to the lower south Platte River in Colorado. R. L. Parshall. Colorado. Agricultural Experiment Station. Bulletin; No. 279. Fort Collins, Colo., 1922. 72p.

- River-irrigating waters of Arizona, their character and effects. R. H. Forbes. Arizona. Agricultural Experiment station. Bulletin no. 44. Tucson, Ariz., 1902. 144-214p.
- Salinity of irrigation water. C. S. Scofield. U. S. Smithsonian institution. Report, 1935. Washington, D. C., 1936. p. 275-287.
- Salinity of irrigation water and injury to crop plants. F. M. Eaton. California Citrograph. v. 20. p. 302-334. August, September 1935.
- Salt content of Colorado River increased in 25 years. C. S. Scofield. Engineering News. v. 97. p. 131-132. July 22, 1926.
- Salts injurious to vegetation and their relationship to the irrigation of arid and semi-arid regions. A. J. Perkins. International review of the science and practice of agriculture. v. 9. p. 786-787. July 1918.
- Sand trap for irrigating ditches. H. A. Crafts. Engineering record. v. 54. p. 150-151. August 11, 1906. Describes an arrangement near San Jose, Cal., to remove sediment from the water before it enters the ditch which irrigates the Sorosis Farm.
- Saving of irrigation water in wheat growing. Albert Howard and G. L. C. Howard. Calcutta, Printed at the Baptist mission press, 1919. 22p. Quetta, Baluchistan. Fruit Experiment station. Bulletin no. 4. Also Fusa. Agricultural Research Institute. Bulletin no. 118. Calcutta, 1921. 22p.
- Sensitive hydrometer for estimating total solids in irrigation waters and soil extracts. Amar Nath Puri. Soil science. v. 36. p. 297-301. October 1933.
- 70,000 tons of silt daily removed from Colorado river water. Soil science. v. 154. p. 91. February 1936.
- Sewage contaminated irrigation water, a major public health program in the West. E. N. Chapman. American Journal of public health. v. 25. p. 930-937. August 1935.
- Sewage treatment for obtaining park irrigation water. F. McQueen. Public Works. v. 64. p. 16-17. October 1933.
- Shows necessity for proper disposal of wash tank water. W. F. Kelley. California Citrograph. v. 12. p. 256. May 1927.
- Significance of mineral matter in water. P. L. Hibbard. American Water Works Association. Journal. v. 26. p. 888-889. July 1934.

- Silt in the Colorado river and its relation to irrigation. S. Fortier and H. F. Blaney. U. S. Department of agriculture. Technical Bulletin no. 67. Washington, D. C., 1928. 95p.
- Silt problem in the Imperial Valley. F. C. Finkle. Engineering Magazine. v. 42. p. 807-809. February 1912.
- Silting of reservoirs. Henry M. Eakin. U. S. Department of agriculture. Technical Bulletin no. 524. Washington, D. C., 1936. 142p.
- Skimming rivers for irrigation water. Engineer. v. 134. p. 485-486. November 10, 1922. Review of work of F. V. Elsdon, dealing with effect of silt on irrigation works and with possibilities of its exclusion from canals.
- Soil nitrogen income from rain water. H. H. Fennell and H. W. Houghton. Panhandle. Agricultural experiment station. Bulletin no. 23. Goodwell, Okla., 1930. 24p.
- Soils and irrigation waters of the Burdekin Delta. H. W. Kerr and N. G. Cassidy. Queensland agricultural Journal. v. 37. p. 115-127. February 1932.
- South coastal basin investigation. Detailed analyses showing quality of irrigation waters. Sacramento, Cal., California state printing office, 1936. 128p. California. Department of public works. Division of water resources. Bulletin no. 40A.
- South coastal basin investigation. Quality of irrigation waters. A report of cooperative work by the Bureau of Plant Industry, U. S. Department of agriculture and the Division of water resources, State department of public works. Sacramento, Cal., California state printing office, 1933. 95p. California. Department of public works. Division of water resources. Bulletin no. 40.
- Special examination of waters, vegetable soils, and unusual soil constituents. Harvey Washington Wiley. In his Principles and Practice of agricultural analysis. 3d edition. v. 1. p. 621-641.
- Study of the internal economy of water as practised by Zemindars on an outlet on the upper Bari Doab Canal. J. D. H. Bedford. Punjab engineering congress. Minutes of proceedings. 1932. p. 18-19c.
- Study of waters for irrigation; the irrigation plant. G. L. Holter and John Fields. Oklahoma. Agricultural experiment station. Bulletin no. 29. Stillwater, Oklahoma, 1897. 14p.
- Suitability of nitrogenous fertilizers for application in irrigation water. W. G. Babcock. California Citrograph. v. 22. p. 70. December 1936.

- Transmission co-efficient of water in natural silts. V. I. Vaidhianathan and H.R. Luthra. Lahore, Supt. govt. print. Punjab, 1934. 12p. India. Punjab irrigation research institute. Research publications. v.5, no.2.
- Ueber die veränderung und wirkungen des rieselwassers bei der berieselung. F. J. König. Landwirtschaftliche jahrbucher. v.14. p.177-238. v.22. p.801-849. 1885-1893.
- Units of measurement and the application of irrigation water. C. C. Wright Washington. Agricultural experiment station. Popular bulletin no.145. Pullman, Washington, 1929. 21p.
- Units of water measurement. J. B. Brown. California cultivator. v.69. p.205. August 27, 1927.
- Untersuchung über quantitative und qualitative veränderung von rieselwasser bei öfterer benutzung desselben. Kurt Michaelis and F. J. König. Landwirtschaftliche jahrbucher. v.6. p.287-325. 1877.
- Untersuchungen über quantitative veränderungen von rieselwasser bei öfterer benutzung. F. J. König. Landwirtschaftliche jahrbucher. v.8. p.505-592. 1879.
- Untersuchungen von abflusswasser aus darmlulturen. Rudolph Schiller. Landwirtschaftliche jahrbucher. v.9. p.621-628. 1880.
- Use and waste of irrigation water. E. B. Debler. Engineering news record. v.100. p.114. January 19, 1928.
- Use and waste of irrigation water. G. E. P. Smith. Arizona. Agricultural experiment station. Bulletin no.88. Tucson, Ariz., 1919. 207-224p.
- Use and waste of irrigation water. G. E. P. Smith. Arizona. Agricultural experiment station. Bulletin no. 101. Tucson, Ariz., 1925. 273-293p.
- Use of alkali water for irrigation. F. S. Harris and W. I. Butt. Utah. Agricultural experiment station. Bulletin no. 169. Logan, Utah, 1919. 41p.
- Use of alkaline and saline waters for irrigation. T. H. Means. U. S. Department of agriculture. Bureau of soils. Circular No. 10. Washington, D. C., 1903. 4p.
- Use of brack water in irrigation. Farming in South Africa. v.4. p.210. August 1929.

- Use of irrigation water on farm crops. A. E. Palmer. Canada.
Department of agriculture. Farmers' bulletin no. 10. Ottawa,
1936. 51p.
- Use of water in arid and semi-arid cities. N. T. Veatch, Jr. American
Water Works association. Journal. v. 23. p. 937-954.
July 1931.
- Value of Rio Grande water for the purpose of irrigation. Arthur Goss.
New Mexico. Agricultural experiment station. Bulletin no. 12.
State college, N. M., 1893. 33-58p.
- Value of water in southern California; historical resume of the cost of
its development for irrigation and domestic use. F. Thomas. Civil
Engineering. v. 3. p. 555-559. October 1933.
- Variation and control of salinity in Sacramento-San Joaquin delta upper
San Francisco Bay, 1931. Sacramento, Cal., California state
Printing office, 1932. 440p. California. Department of
public works. Division of water resources. Bulletin no. 27.
- Vorschlaege zur nutzbarmachung heisser abwasser fuer Heizung und Warmwasser-
bereitung. H. Balcke. Gesundheits-ingenieur. v. 51.
p. 161-169. March 17, 1928. Proposed ways of utilizing
hot waste waters for heating and hot water supply. Temperature entropy
diagrams of steam engines, waste heat of steam, gas and Diesel engines;
effect of warm irrigation water on plant growth; schemes for utilizing
waste heat of circulating water, on large and small scales, for house
heating, soil warming, hot-water supply, etc.; descriptions of experi-
mental plants.
- Washing the muddy Colorado River. Popular science. v. 127. p. 21 .
November 1935.
- Water development in California. W. A. Johnstone. California cultivator.
v. 54. p. 281. February 21, 1920.
- Water for stock and irrigation. W. R. Jewell. Journal of the Department
of agriculture of Victoria. v. 25. p. 728-731. December 1927.
- Water is king in California. F. Cuttle. American forests. v. 33.
p. 536-538. September 1927.
- Water relations of Yakima Valley soil. C. S. Scofield and C. C. Wright.
Journal of agricultural research. v. 37. p. 65-85. July 15,
1923.
- Water supply and utilization: an outline of hydrology from the view point
of the arid section of the United States together with an outline of
water law and its administration as it has developed in the arid states.
New York, John Wiley and sons, Inc., 1930. 495p.

Water users slow in payments. Agricultural Review. v.19.
p.8. January 1926.

Waters of North Dakota. E. F. Ladd. North Dakota. Agricultural
Experiment Station. Bulletin no.66. Agricultural College,
N. D., 1905. 559-571p.

Waters of the Rio Grande, a contribution to the hydrology of the San Luis
Valley, Colorado. William P. Headden. Colorado. Agricultural
Experiment Station. Bulletin no.230. Fort Collins, Colo., 1917.
62p.

Well-plugging program saves irrigation water; old leaking wells in Roswell
artesian base in New Mexico. Engineering News Record. v.111
p.598-599. November 16, 1933.

What becomes of irrigation water? F. J. Veilmeyer. California
Cultivator. v.11. p.209. April 1926.

When is water safe for irrigation purposes? A. J. Perkins. Journal
of the Department of Agriculture of South Australia. v.27.
p.443-454. December 1923.

LAND SETTLEMENT.

Convenient and economical method of subdividing tracts of irrigated lands.
W. C. McNow. Engineering News. v.68. p.450-451.
September 5, 1912. Describes the contour method of land sub-
division for irrigated tracts.

Developing new land under irrigation. R. P. Dean. Washington. Agri-
cultural Experiment Station. Popular Bulletin no. 136. Pullman,
Washington, 1926. 23p.

Irrigation and the land-use program. J. W. Haw. Civil Engineering.
v.6. p.663-667. October 1936.

Land settlement of irrigation projects. A. Griffin. American Society
of Civil Engineers. Transactions. v.90. p.750-772.
1927. Aspects and phases of problems; suggests ideas
for consideration and discussion.

Preparing six hundred acres of land for irrigation. F. W. Herron.
Engineering News Record. v.82. p.337-339. February
13, 1919. Soil studies, surveys, supply and drainage ditches; land
leveling and ditch construction operations.

Relation of land settlement to irrigation. E. Mead. Western Society of
Engineers. Journal. v.29. p.241-246. June 1924.

Some problems of the settler on irrigated land. F. B. Linfield.
Reclamation record. v.14. p.12-14. January
1923.

Subdivision of irrigated land. O. A. Welty. Civil engineering.
v.2. p.295-298. May 1932.

LAWS AND LEGISLATION.

Abstract of laws for acquiring titles to water from the Missouri river
and its tributaries, with the legal forms in use. Compiled by
Elwood Mead. U. S. Department of agriculture. Office of experi-
ment stations. Bulletin no. 60. Washington, D. C., 1899. 77p.

Abstract of the laws of the several states and territories on irrigation
and water rights. Compiled by O. A. Critchett. U. S. Depart-
ment of agriculture. Office of irrigation inquiry. Bulletin no.1.
Washington, D. C., 1893. 180p.

Act appropriating the receipts from the sale and disposal of public lands
in certain states and territories to the construction of irrigation
works for the reclamation of arid lands. Washington, D. C.,
Government printing office, 1908. 7p.

Act appropriating the receipts from the sale and disposal of public lands
in certain states and territories to the construction of irrigation
works for the reclamation of arid lands and subsequent acts pertaining
thereto. Washington, D. C., Government printing office, 1911. 11p.

Act of Congress commonly called the Carey act, and amendments thereto,
with regulations and forms prescribed by the Secretary of the interior
April 19, 1909 ... Statute of New Mexico, with regulations and forms
adopted by the Carey act land board, May 15, 1909. Santa Fe, 1910.
73p.

An act to amend the water act, 1890. 20th February 1900. Melbourne,
R. S. Brain, government printer, 1900. 58p.

An act to consolidate the law relating to the supply and conservation of
water. 10th July, 1890. Melbourne, 1890. 136p.

Acts supplementing or amending the Wright irrigation law. Passed by the
Legislature in 1893. Sacramento, Cal., A. J. Johnston, 1894.
13p.

Administration of stream flow. Edward Hyatt. American society of civil
engineers. Transactions. v.94. p.301-325. 1930

Analysis of Boulder Canyon project act, and text of Colorado river compact - reclamation law, Federal water power act, Kinkaid act. Colorado river commission. Sacramento, Cal., 1930. 114p.

Application of the reclamation law to irrigation districts: hearings on H.R. 2702, a bill to provide for the application of the reclamation law to irrigation districts, September 19-20, December 19, 1919. Washington, D. C., Government printing office, 1920. 3 parts.

Application of reclamation law to irrigation districts ... Report (to accompany H. R. 4954.) Washington, D. C., Government printing office, 1917. 22p. U. S. 65th Congress, 1st session. House. Report no. 93.

Apuntes sobre irrigacion notas sobre su organizacion economica en el extranjero en el pais. Una posible solucion al problema de la irrigacion nacional que facilita su desarrollo sin que resulte favorecido el capitalismo agricola. J. Herrera y Lasso. Mexico, Murguia, 1919. 256p.

Arizona adopts statute which will remedy many irrigation evils. E. B. House. Irrigation age. v.31. p.116. June 1916.

Badische wasserrecht, enthaltend das wassergesetz vom 26 juni 1899 nebst den vollzugsvorschriften und den sonstigen wasserrechtlichen bestimmungen. Systematisch dargestellt und erlautert von dr. Karl Schenkel ... 2. aufl. Karlsruhe i.B., Druck und verlag der G. Braun - schen hofbuchdruckerei, 1902. 774p.

California's irrigation law analyzed. Irrigation age. v.31. p.71. March 1916.

California irrigation district laws, 1935. Sacramento, Cal., California state printing office, 1936. 376p. California. Department of public works. Division of water resources. Bulletin no. 18D.

Carey act; how to acquire title to public lands under the act; a comprehensive survey of the regulations in force in the various states. E. F. Dohn. Chicago, Ill., National irrigation journal publishing co., 1911. 69p.

Carey act, comprising the acts of Congress and of the Legislature of the state of Nevada in relation thereto, rulings of the secretary of the interior and of the state commission of industry, agriculture and irrigation. Carson City, Nev., State printing office, 1913. 52p. Nevada. Bureau of industry, agriculture and irrigation. Bulletin no. 2.

- Code des irrigations, suivi des rapports de Mm. Falloz et Passy et de la législation étrangère. J. L. H. Bertin. Paris, Pussacq etc., 1852. 182p.
- Código y reglamento de aguas del Perú con leyes y decretos concordantes. Ed. oficial. Lima, Impr. del estado, 1902. 148p.
- Colorado irrigation laws, containing all the laws of the state of Colorado which apply to or in any manner affect the irrigating interests. Denver, Colorado, 1894. 40p.
- Commentaire de la loi du 17 - 23 juillet 1856 sur le drainage, suivi de la législation sur les irrigations et sur le libre écoulement des eaux. Louis Tripier. Paris, Madame Mayer-Odin, 1856. 166p.
- Compilacion de la legislación de aguas, canales de riego, pantanos y puerto. Anotado con la doctrina y referencias a la jurisprudencia civil y administrativa y a las leyes y códigos que tienen relación con ella por la redacción de la Revista de los tribunales y de legislación universal. 3d edition. Madrid, Centro editorial de Gongora, 1902. 512p.
- Concesion i distribucion de las aguas en los aprovechamientos agrícolas i fabriles; conferencia dada en la universidad del estado a nombre de las sociedades nacionales de agricultura, de minería i de fomento fabril el 28 de julio de 1902. Pedro Luis Gonzalez. Santiago de Chile, Imprenta Cervantes, 1902. 16p.
- Conservancy laws adapted to irrigation development. J. L. Burkholder. Engineering news record. v.106. p.753. May 7, 1931.
- Decisions of the water courts of the Union of South Africa. From August 1921 to December 1923 inclusive. Edited by C. G. Hall. Cape Town and Johannesburg, Juta & co., ltd., 1929. 244p.
- Development of institutions under irrigation, with special reference to early Utah conditions. George Thomas. N. Y., Macmillan Company, 1920. 293p.
- Die von der königl. Hannoverschen Regierung beabsichtigte revision der gesetzgebung wegen ent - und bewässerungs - anlagen, sowie wegen unterhaltung der natürlichen wasserzuge. Dorries. Journal für landwirtschaft. v.14. p.1-79. 1866. A proposed revision by the government of Hannover of drainage and irrigation legislation as the maintainance of the natural waterways.
- Digest of the decisions of the supreme courts of the states and territories of the arid region and of the United States circuit and supreme courts in cases involving questions relative to the use and control of water in that region. Compiled by D. W. Campbell, esq., of the United States

geological survey; revised and edited under the direction of the Secretary of the interior, by W. C. Pollock, esq., of the Assistant attorney-general's office for the Interior department. Washington, D. D., Government printing office, 1889. 59p.

District irrigation land of California. Decisions thereon by the Supreme Court. Notes and index. Compiled and prepared for publication by William H. H. Hart, attorney-general. Sacramento, Cal., A. J. Johnston, 1891. 75p.

Drainage of irrigation lands may be charged to maintenance. Engineering news. v.94. p.817. May 14, 1925.

Economic and social aspects of federal reclamation. Dorothy Lampen. Baltimore, Md., Johns Hopkins press, 1930. 125p.

Egyptian Canal Act. Cario, National printing office, 1890. 25p.

Elements of western water law. A. E. Chandler. San Francisco, Cal., Technical publishing co., 1918. 158p.

Engineering and construction for irrigation district. L. M. Rice. Irrigation age. v.31. p.152-154. August 1916.

Federal cooperative reclamation act ... Report. (To accompany S.2170.) Washington, D. C., Government printing office, 1921. 10p.
U. S. 67th congress, 1st session. Senate. Report no. 190.

Federal cooperative reclamation act ... Report. (To accompany S. 3254.) Washington, D. C., Government printing office, 1922. 9p.
U. S. 67th congress, 2d session. Senate. Report no. 542.

Federal farm loan act helps district plan. Irrigation age. v.32. p.83. April 1917.

Federal reclamation laws of the United States annotated. Chronological compilation of the public statutes of the United States relating to the federal irrigation of arid lands; with notes of decisions of the courts, comptroller, attorney general, Department of the interior, and Reclamation service. Ottomar Hamele. January 1, 1920. Washington, D. C., Government printing office, 1920. 200p.

Federal reclamation laws annotated. Chronological compilation of the public statutes of the United States relating to the federal irrigation of arid lands; with notes of decisions of the courts, comptroller, comptroller general, attorney general, Department of the interior, and the Bureau of reclamation. Glenna F. Sinclair. May 1931. Washington, D. C., U. S. Government printing office, 1931. 462p.

-----Supplement ... containing the laws of the
Seventy-second congress, first session with annotations and with
annotations applicable to previous legislation affecting reclamation.
August 1932. Washington, D. C., U. S. Government printing
office, 1932. 60p.

-----Cumulative supplement ... containing the
laws of the 72d congress and of the 73d congress, first session with
annotations and with annotations applicable to previous legislation
affecting reclamation. July 1933. Washington, D. C., U. S. Govern-
ment printing office, 1933. 90p.

-----Cumulative supplement ... containing the
laws of the 72d and 73d congresses, with annotations applicable to
previous legislation affecting reclamation. July 1934. Margaret G.
Young. Washington, D. C., U. S. Government printing office, 1934.
122p.

-----Margaret G. Young.
July 1936. Washington, D. C., U. S. Government printing
office, 1937. 700p.

General and special irrigation laws of the State of Texas. December 1,
1920. Compiled by Board of Water Engineers. Austin, Tex., Von
Boeckmann - Jones Co., printers, 1920. 103p.

Growth of riparian law. S. S. Green. California countryman. v.16.
p.5. November 1929.

Handbook of the irrigation district laws of the 17 western states of the
United States. W. R. King. ... December 20, 1918, with addenda
outlining changes made in the 1919 session laws. Washington, D. C.,
Government printing office, 1920. 213p.

History of the irrigation district idea in the West. Irrigation Age.
v.31. p.86-88. April 1916.

Hydraulique agricole. Applications. Des canaux d'irrigation de l'Italie
septentrionale envisages sous les divers points de vue de la science
hydraulique, de la production agricole et de la legislation.
Benjamin Madault de Luffon 2d edition. Paris, Dunod,
1861-62. 2v.

Idaho advances in irrigation legislation. Irrigation Age. v.31.
p.55. February 1916.

Importance of the national irrigation act. C. E. Wantland.
Gunton's Magazine. v.24. p.370-376. April 1903.

- Instructions and laws for the purchase of land from the state of Nevada.
Dated March 5, 1871. Carson City, C. L. Perkins, state printer,
1871. 22p.
- Irrigation act, 1886. An act to make better provisions for the supply
of water for irrigation and also for mining, manufacturing and other
purposes. 16th December 1886. Melbourne, R. S. Brain, Government
printer, 1886. 68p.
- Irrigation and drainage laws critically reviewed. R. P. Teele. En-
gineering news. v.93. p.788-790, 1047-1048. v.94. p.290.
November 13, 25, 1924. February 12, 1925.
- Irrigation and drainage laws of Italy. R. P. Teele. U. S. Department of
agriculture. Office of Experiment Station. Bulletin no. 192.
Washington, D. C., 1907. 100p.
- Irrigation and reclamation laws, etc., of Australia, Canada, Great Britain,
India and South Africa. C. L. W. Meyer. Washington, D. C., Government
printing office, 1925. 243p.
- Irrigation and water power laws of the state of Nebraska in force July 17,
1913. Lincoln, Nebraska, Claflin printing co., 1913. 79p.
- Irrigation and water rights. New law as amended by the eighth session of
the Legislature of the state of Utah. 1909. Salt Lake City,
Star printing company, 1909. 31p.
- Irrigation district law for Oregon. Irrigation age. v.32. p.67.
March 1917.
- Irrigation district laws of Oregon, 1929. Salem, Ore., State printing
department, 1929. 104p.
- Irrigation district laws of Washington: the irrigation district law of
1890 together with amendatory and supplemental acts together in Reming-
ton's 1915 code, all acts to and including laws of 1919. Seattle,
Washington secretary of state, 1919. 77p.
- Irrigation in the United States. Report ... Richard J. Hinton.
Washington, D. C., Government printing office, 1887. 240p.
U. S. 49th congress, 2d session. Senate. Miscellaneous document
no. 15.
- Irrigation laws. 2d edition. Olympia, Washington, Secretary of state,
1916. 173p.

- Irrigation laws. Provisions of constitution and laws of state of New Mexico relating to incorporating and government of irrigation companies and water users' associations. Published by State corporation commission, Santa Fe, New Mexico. Albuquerque. Albright and Anderson, 1913. 32p.
- Irrigation laws and instructions to superintendents and water commissioners, Colorado. Denver, 1894. 228p.
- Irrigation laws of Kansas. With extracts from the laws of the United States on the subject of irrigation. Eugene F. Ware. Topeka, Kan., Crane & co., 1896. 61p.
- Irrigation laws of the northwest territories of Canada and of Wyoming, with discussions. J. S. Dennis, Fred Bond, and J. M. Wilson. U. S. Department of agriculture. Office of experiment stations. Bulletin no.96. Washington, D. C., 1901. 90p.
- Irrigation laws of the state of Nebraska in force July 7, 1911. Published by the State board of irrigation, highways and drainage. Donald D. Price, state engineer. London, Neb., State journal company, printers, 1911. 72p.
- Irrigation laws of the state of New Mexico, with an index of decisions of the state board of water commissioners and of opinions rendered by the attorney general. Compiled by the state board of water commissioners, March 1914. Santa Fe, N. M., Eagle print, 1914. 67p.
- Irrigation laws of the state of Washington. Compiled and published by I. M. Howell, secretary of state, 1916. Olympia, Wash., E. L. Boardman, public pinter, 1916. 173p.
- Irrigation laws of the state of Wyoming. Laramie, Wyo., State engineer, 1910. 73p.
- Irrigation laws of the state of Wyoming; codified from the compiled laws of Wyoming, 1910; prepared for publication in the office of the state engineer, Cheyenne, Wyoming, and published for the convenience of irrigators, engineers and attorneys. Laramie, Wy., The Laramie republican co., printers, 1910. 73p.
- Irrigation laws of Wyoming, codified from the Revised statutes of 1899 and session laws of 1901, 1903, 1905, 1907 and 1909. May, 1909. Prepared for publication in the office of the state engineer, Cheyenne, Wyoming, and published for the convenience of irrigators, engineers and attorneys. Cheyenne, Wyo., The S. A. Bristol co., printers, 1909. 102p.

- Irrigation laws of Wyoming, in effect September 1, 1913. Compiled by A. J. Parshall, state engineer. Laramie, Wy., Laramie republican company, printers, 1913. 81p.
- Irrigation legislation. E. Mead. Outlook. v.70. April 12, 1902. p.907-910.
- Irrigation legislation for the Philippine Islands. A. E. Chandler. California journal of technology. v.15. p.11-16. March 1910. An account of conditions, the legislation for the use and distribution of water formerly enacted, and that needed.
- Irrigation of arid lands in the territory of Hawaii. Statement of Mr. George M. McClellan of Honolulu, Hawaii, December 12, 1910. Washington, D. C., Government printing office, 1910. 14p.
- Irrigation statutes. Revised statutes of Colorado, 1908, also laws passed by the Seventeenth general assembly, relating to irrigation, and Supreme court decisions. Published by authority. Denver, The Smith-Brooks printing co., state printers, 1909. 284p.
- Irrigation under the provisions of the Carey act. Guy Ervin. U. S. Department of agriculture. Office of the secretary. Circular no.124. Washington, D. C., 1919. 14p.
- Issue of certificates by water users' association. ... Hearing before the Committee on irrigation, United States senate ... Washington, D. C., Government printing office, 1908. 17p. U. S. 60th congress. Senate. Document no.507.
- Kinkaid on irrigation law of Colorado; the law of irrigation as enunciated by the Colorado appellate courts and the statutes on water rights and irrigation. D. B. Kinkaid. Denver, W. H. Courtright pub. co., 1912. 436p.
- Land and irrigation laws of the state of Idaho, 1911. n.p., State board of land commissioners, 1912. 192p.
- Land laws and rules of land office, with appendix concerning the Carey acts, 1909. Carson City, State printing office, 1909. 61p.
- Land laws of the state of Nevada with rules and regulations adopted in conformity therewith, and a synopsis of the laws of the United States for the disposition of the public lands in the state of Nevada. 1926. Compiled by C. L. Deady, surveyor general and state land register. Carson City, Nev., State printing office, J. Farnsworth, superintendent, 1926. 104p.
- Law of irrigation. Charles F. Davis. Fort Collins, Colo., 1915. 346p.

- Law of operations preliminary to construction in engineering and architecture; rights in real property, boundaries, easements and franchises. New York, 1900. 638p.
- Law of water for irrigation in Colorado. S. W. Carpenter. Denver, Colo., W. H. Lawrence & co., 1886. 127p.
- Supplement ... containing all the legislation adopted by the Colorado general assembly, session of 1887, and all additional decisions down to May 15th 1887, etc. Denver, Colo., W. H. Lawrence & co., 1887. 20p.
- Laws of waters and water right; international, national, state, municipal and individual, including irrigation drainage and municipal water supply. Henry Phillip Farnham. Rochester, Lawyers' co-operative publishing company, 1904. 3v.
- Law of water and modern irrigation. Richard J. Hinton. Engineering magazine. v.10. p.699-706. January 1896. Reviewing the United States circuit court decision that the California laws creating municipal irrigation districts are unconstitutional, and favoring state ownership of water.
- Laws and regulations relating to the Flathead irrigation project. General land office. Washington, D. C., Government printing office, 1915. 17p.
- Laws and regulations relating to the reclamation of arid lands by the United States. Approved May 31, 1910. U. S. General land office. Washington, D. C., Government printing office, 1910. 24p.
- Law and regulations relating to the reclamation of arid lands by the United States. Approved April 29, 1912. Washington, D. C., Government printing office, 1912. 39p. U. S. Department of the interior. General land office. Circular no.102.
- Laws and regulations relative to the distribution of water by superintendent of irrigation and water commissioners, in Colorado. Issued from the state engineer's office. Denver, 1887. 33p.
- Laws of irrigation. Charles F. Davis. Fort Collins, Colo., 1915. 346p.
- Laws of the state of Idaho relative to public waters, water rights and irrigation. Compiled by A. C. Hindman.... 1915. Published by direction of the Idaho irrigation and drainage code commission. Boise, Capital news job rooms, 1916. 303p.
- Laws of the state of Washington relating to irrigation districts. Fred J. Cunningham. Olympia, 1925. 117p.

- Laws relating to the reclamation of arid lands by the United States.
Washington, D. C., Government printing office, 1911. 40p.
- Legal phases of irrigation development in Alberta. H. B. Muckleston.
Journal of engineering, Institute of Canada. v.3. p.510-514.
November 1920. History of irrigation law in general, developments
in Alberta, and procedure under present laws.
- Legal problems of reclamation of lands by means of irrigation. M. Bien.
Annals of the American academy of political and social science. v.33.
p.664-676. May 1909.
- Legislation concerning water-rights. O. W. Israelson. Utah.
Agricultural experiment station. Circular no.38. Logan, Utah,
1918. 26p.
- Legislation des ameliorations foncieres. International yearbook of
agricultural legislation, 1919. p.362-389. 1920.
- Legislation en matiere immobiliere en Egypte; recueil des lois, reglements
et instructions, administratives relatifs a la propriete immobiliere.
Published par le controle des contributions directes. 2d edition.
Le Caire, Imprimerie nationale, 1901. 529p.
- Lei de regadio de la Republica Argentina. Santiago Marin Vicuna.
Santiago de Chile, Impr. Cervantes, 1910. 27p.
- Ley de riego de la provincia de Tucuman. Tucuman, "La Argentina"?
1913. 59p.
- Ley de riego para Santiago del Estero. C. Wauters. Ingenieria, v.33.
p.255-269. June 1929. Irrigation law for Santiago del Estero.
Outline of reasons serving as basis for projected law, as submitted
to legislature.
- Ley no.3108. Contribucion directa y ley no.2816. Riego y sus decretos
reglamentarios. Cordoba, Imp. "Pereyra," 1922. 55p.
- Ley no.6546 de irrigacion y su reglamentacion. Publicacion oficial.
Buenos Aires, Talleres graficos del Ministerio de obras publicas, 1915.
17p.
- Loi du 21 juin 1865 sur les associations syndicales modifiee par la loi du
22 decembre 1888 ... Paris, Imprimerie nationale, 1898.
27p.
- Loi n.26 portant amendement a la loi n.8 de 1912 sur l'irrigation et la
conservation des eaux en Afrique du Sud. International yearbook of
Agricultural legislation, 1916. p.585-586. 1917.

- Loi sur les digues et canaux. Decret. Le Caire, Imprimerie nationale, 1910. 28p.
- Loi sur l'irrigation. International yearbook of agricultural legislation, 1919. p.364-367. 1920.
- Manual of the United States reclamation service. T. H. Newell, director. Washington, D. C., Government printing office, 1913. 630p.
- Manuel de l'irrigateur. Felix Villeroy and Adam Muller. ... suivi du code des irrigations. Paris, Dusacq, 1850. 330p.
- Mensaje del p. ejecutivo y proyecto de ley de aguas 1915. San Juan, Talleres graficos de la Carcel publica, 1915. 83p.
- Message and project of law relative to irrigation works. Argentine republic. Ministerio de obras publicas. Buenos Aires, 1909. 20p.
- Mills' irrigation manual for lawyers, irrigation officers, engineers and water users; being a treatise on the law of irrigation together with the statutes and forms of the following seventeen states and territories; Arizona, California, Colorado, Kansas, Idaho, Montana, Nebraska, New Mexico, Nevada, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington and Wyoming. J. Warner Mills. Denver, Colo., Mills publishing company, 1907. 635p.
- Mining and water cases annotated; a collection of leading American, Canadian and English cases on the topics of irrigation, drainage, reclamation, mining, oil, gas and related subjects, with annotations indexes and forms. James M. Kerr. Chicago, Callaghan & co., 1912. 856p.
- Nebraska irrigation laws, 1897. Published by authority of the State board of irrigation. Lincoln, Neb., State journal company, printers, 1897. 53p.
- Need of water legislation in Oregon; prepared at the request of His Excellency, Geo. E. Chamberlain, governor. John H. Lewis. Salem, Ore., W. S. Duniway, state printer, 1907. 32p. Oregon. State engineer. Special report no.1.
- Notes on suits between states; interstate water-irrigation. Carman F. Randolph. New York, 1902. 53p. Reprinted from the Columbia law review, May and June 1902.
- Notes on the irrigation laws of Idaho and government regulations relating to rights of way over public lands, Weir tables and instructions to irrigators. Compiled by state engineer. Rexburg, Idaho, Current-journal print, 1903. 67p.

Oregon system of water titles. John H. Lewis. Salem, Ore., 1912.
16p. Oregon. State engineer. Bulletin no.2.

Pantano y canales del Guadalucllato, sindicatos y jurado de riego; ordenanza para riegos y otros usos: que debera cumplirse en todas los aprovechamientos de las aguas del pantano del Guadalucllato.
Cordoba, Imp. Provincial, 1931. 69p.

Paper on the irrigation laws and decisions of California. John D. Works.
San Francisco, Bancroft-Whitney co., 1900. 128p.

Pending irrigation and water legislation. F. Adams. Pacific rural
press. v.105. p.308. March 31, 1923.

Police des eaux; traite pratique a l'usage des maitres d'usines, des riverains de la mer et des cours d'eau navigables ou non navigables, et des concessionnaires ou proprietaires de marais, suivi d'un commentaires special des lois sur l'irrigation et le drainage. Gabriel Dufour.
Paris, Cotillon, 1857. 547p.

Policies governing the ownership of return waters from irrigation. W. A. Hutchins. U. S. Department of Agriculture. Technical
bulletin no.439. Washington, D. C., 1934. 48p.

Pratique et legislation des irrigations dans l'Italie superieure et dans quelques etats d'Allemagne. M. de Mauny de Hornay. Paris, Imprimerie royale, 1841. 166p.

Problems of irrigation legislation. E. Mead. Forum. v.32.
p.573-581. January 1902.

Projet de loi de secours aux entreprises de canaux et reservoirs d'irrigation. Rapport de Monsieur Andre de Llaurado. n.p., 1891. 42p.

Property in water. George Chanier. Royal society of New South Wales.
Journal and proceedings. v.37, appendix. p.14-23. Sydney, 1903.

Proposed water code. G. E. P. Smith. Arizona. College of agriculture.
Extension service. Circular no.11. Tucson, Ariz., 1916. 8p.

Proyecto de ley de aguas, formulado por la Comision nombrada por suprema
recolucion de 19 de setiembre de 1899. Lima, Imp. de "El nacional,"
1899. 443p.

Proyecto de ley de auxilios a los canales y pantanos de riego y exposicion de motivos de la ley. Andre Llaurado. Madrid, Imprenta de R.
Moreno y R. Rojas, 1890. 58p.

Proyecto de ley de irrigacion de la provincia de Salta. Mayo 1 de 1901.
Salta, Tip. "La Provincia", 1929. 42p.

Reclamation of arid lands ... Report (To accompany H. R. 9676.) Washington, D. C., Government printing office, 1902. 17p. U. S. 57th congress, 1st session. House. Report no. 794.

Recopilacion de las principales leyes expedidas por conducto de la Secretaria de agricultura y fomento, periodo de 1 de diciembre de 1924 a 6 de enero de 1927: Ley sobre reparticion de tierras ejidales y constitucion del patrimonio parcelario ejidal. Ley sobre deuda publica agraria. Bancos agricolas ejidales. Ley de irrigacion. Ley forestal. Ley de colonizacion. Ley de pesca. Tacubaya, D. F., Mex., Impr. de la Direccion de estudios geograficos y climatologicos, 1927. 666p.

Reforma agraria y la ley de 13 de abril de 1932 sobre riegos; antecedentes para su estudio. Madrid, Establecimiento tip. Huelves y compania, 1932. 158p.

Regime des eaux et particuliereinent de celles qui servent aux irrigations. Jacques Giovanetti. Paris, Imprimerie royale, 1844. 203p.

Reglamento para la distribucion de las aguas del rio Nazas desde la presa de San Fernando, en el estado de Durango, hasta de Durango hasta la presa de la colonia, en el de Coahuila, expedido por el ejecutivo federal, con fecha 15 de junio de 1895. Saltillo, Tip. del gobierno, 1895. 25p.

Regulation concerning state irrigation districts in their relation to the public lands of the United States, approved March 6, 1913. Washington, D. C., U. S. General land office, 1920. 13p.

Regulations concerning railroads claiming right of way over the public lands; also, concerning right of way of ditch or canal owners over the public lands and reservations for the purpose of irrigation. Approved March 21, 1892. U. S. General land office. Washington, D. C., Government printing office, 1892. 13p.

Regulations concerning right of way for canals, ditches, and reservoirs over the public lands and reservations ... approved July 8, 1898. U. S. General Land office. Washington, D. C., Government printing office, 1898. 19p.

Regulations concerning right of way over public lands and reservations for canals, ditches, and reservoirs and use of right of way for various purposes. Approved June 6, 1908. (Reprint October 1915, with amendments of May 7, 1912, November 16, 1912, and June 18, 1915.) U. S. General land office. Washington, D. C., Government printing office, 1923. 28p.

Report of committee with reference to the sale of government lands in the Sudan. Presented to H. E. the governor general Sir Reginald Wingate ... June 1904. Cairo, 1904. 54p.

Report of the Commission appointed by his excellency, the governor of the state of Colorado, to revise the laws of the state regulating the appropriation, distribution and use of water, with the draft of a bill prepared by the Commission for enactment by the General assembly. Denver, 1890. Printed by authority. Denver, Colo., Collier & Cleaveland lith. co., state printers, 1890. 300p.

Report on irrigation laws and litigation in Nevada. Henry Thurtell and G. H. True. Nevada. Agricultural experiment station. Bulletin no. 69. Reno, Nev., 1909. 7-57p.

Requirements and regulations, including suggestions and instructions in relation to the appropriation, use and measurement of water in the state of Nevada. Carson City, Nev., State printing office, 1912. 32p.

Right of appropriation and the Colorado system of laws in regard to irrigation. Harvey Huston. Denver, Colo., Chain and Hardy book, Stationery and Art co., 1893. 334p.

Rio Grande (Texas-New Mexico) irrigation project: hearing on S. 2530, a bill authorizing an advance of funds to the Reclamation service for completion of the drainage work on the Rio Grande project. (Texas-New Mexico) and for other purposes. October 22, 1913. U. S. Congress. Senate committee on irrigation and reclamation of arid lands. Washington, D. C., Government printing office, 1913. 14p.

Rules and regulations of the Desert land board, pertaining to the reclamation of lands accepted by the state under the Carey act; also, Rules and regulations for operating and maintaining Tumalo project. Salem, Ore., State printing dept., 1914. 15p.

Rules and regulations of the State board of land commissioners ... In relation to the entry of land under the provisions of the Carey act. Adopted October 16, 1909. Pocatello, Pocatello tribune print, 1909. 32p.

Rules and regulations of the State board of land commissioners of Colorado in relation to the entry of land under the provisions of the Carey act. Denver, 1910. 28p.

Rules governing matters coming before the Nebraska state board of irrigation, highways and drainage. 1912. n.p., 1912. 27p.

Schemes for extending irrigation. W. Hughes. Indian engineering. v. 22. p. 299. November 6, 1897. Note presenting a few schemes likely to be of use in preventing famine.

Selected cases on water rights and irrigation law in California and western states. Gavin W. Craig. San Francisco, Bancroft-Whitney company, 1910. 874p.

- South Dakota water laws ... Brookings, S. D., South Dakota state
planning board, 1937. 2v.
- State irrigation legislation. H. M. Moulton. In Washington irrigation
institute. Proceedings, 1920. p.48-53.
- State land laws and rules and regulations thereon of the State board of
land commissioners, state of Utah. Carey land act, state laws accept-
ing same, and rules and regulations thereon. Above and within laws
include all laws in force and as amended by the Utah legislature of
1911. n.p., Price-Conniff print S. L. C., 1911. 62p.
- State of Idaho, the Carey act; a compilation of the federal and state
laws and the rules and regulations pertaining to the entry of land
under provisions of the Carey act in the state of Idaho. Published by
the State board of land commissioners. Fayette, Id., Independent
printing co., 1912. 79p.
- Stepchild of the republic. William E. Smythe. North American review.
v.163. p.37-46. July 1896. Discussion
setting forth the importance of arid America, its size and character.
Carey act and what it has done and will do for the situation.
- Summary of irrigation-district statutes of western states. W. A. Hutchins.
U. S. Department of agriculture. Miscellaneous publication no.103.
Washington, D. C., 1931. 126p.
- Treatise on the law of irrigation. Joseph R. Long. St. Paul, Minn.,
1901. 526p.
- Treatise on the law of irrigation and water rights and the arid region
doctrine of appropriation of waters as the same is in force in the
states of the arid and semi-arid regions of the U. S., and also in-
cluding an abstract of the statutes of the respective states and the
decisions of the courts relating to those subjects. Clesson S.
Kinney. 2d edition. San Francisco, Bender-Moss co., 1912. 4v.
- Treatise on the law of irrigation, covering all states and territories.
Joseph R. Long. 2d edition. Denver, W. H. Courtright publish-
ing co., 1916. 626p.
- Treatise on the law of water rights as the same is formulated and applied
in the Pacific states, including the doctrine of appropriation and the
statutes and decisions relating to irrigation. J. N. Pomeroy.
St. Paul, 1893. 592p.
- Vigorous protest to recent ruling of reclamation service.
Irrigation age. v.31. p.43. January 1916.

- Water bill. Explanatory paper. Melbourne, R. S. Brain, government printer, 1905. 123p.
- Water commission act. Appropriation of water, investigation of water rights and resources, determination of water rights, state supervision over distribution of water. 1935. Compiled by Division of water resources. Sacramento, California state printing office, G. H. Moore, state printer, 1935. 53p.
- Water laws of the state of Oregon. Compiled from Lord's Oregon laws and session laws of 1911 and 1913. 1913. Prepared in the office of the State water board, Salem, Oregon, and published by authority of the legislature of Oregon. Salem, Ore., State printing departments, 1913. 195p.
- Water laws of the state of Oregon. Compiled from Olson's compilation of Oregon laws and the session laws, 1923, 1925 and 1927. Salem, Ore., State printing department, 1928. 90p.
- Water-right problems of Bear river. Clarence T. Johnston and Joseph A. Breckons. U. S. Department of agriculture. Office of experiment stations. Bulletin no.70. Washington, D. C., 1899. 40p.
- Water rights and irrigation, an act codifying and revising certain laws for determining and recording water rights, New law passed by the sixth session of the Legislature of the state of Utah, 1905. n.p., Printed and for sale by the Deseret news, 1905. 32p.
- Water rights for irrigation principles and procedure for engineers. S. T. Harding. Stanford university, Cal., Photolith reproduction by the Stanford university press, 1936. 176p.
- Water rights under the common law and the Irrigation act, no.32 of 1906. Sir Henry Juta. Cape Town, J. C. Juta and co., 1907. 295p.
- Western irrigation law a devolution of the law of appropriation. A. B. Preuss. American law review. v.52. p.41-62. January 1918.
- Wet op de vevloeiingen S. 1904, no.282. Wet van 30, december 1904, S.282, houdende bepalingen omtrent bevlæiingen, met aanteekeningen. 5 druk. Louis Leijdesdorff. Zwolle, W. E. J. Tjeenk Willink, 1931. 39p.
- What effect does an irrigation district have on landowners. W. O. Cotton. Irrigation age. v.32. p.87-90. April 1917.
- Wyoming's irrigation law. Clarence T. Johnston, state engineer. Cheyenne, Wyo., Leader publishing company, 1904. 8p.

LOSS OF WATER.

- Annotated bibliography of evaporation. Grace J. Livingston.
Washington, D. C., U. S. Weather bureau, 1910. 121p.
- Atmospheric influence on evaporation and its direct measurement. Burton
Edward Livingston. Monthly weather review. v.43. p.126-131.
March 1915.
- Dry farming in relation to rainfall and evaporation. Lyman James Briggs.
U. S. Department of agriculture. Bureau of plant industry. Bulletin
no.188. Washington, D. C., 1910. 71p.
- Economic aspect of seepage and other losses in irrigation systems.
E. G. Hopson. American society of civil engineers. Transactions.
v.76. p.336-369. 1913. Discusses the curable
and incurable losses, referring to several projects and the cost of
lining the canals and methods of preventing losses.
- Effect of temperature on the seepage of water from irrigation canals.
Engineering news. v.39. p.305-306. May 12, 1898.
A collection of information from various sources, bearing upon the
losses of water by absorption, evaporation, etc.
- Effect of tillage upon the rate of evaporation. E. L. Sturtevant.
New York. Agricultural experiment station. Bulletin no.5.
Geneva, N. Y., 1882. 2p.
- Evaporation. Alfred L. Webre, assisted by Clark S. Robinson. New York,
Chemical catalog company, inc., 1926. 500p.
- Evaporation and conduction losses from reservoirs and canals in Utah.
Prepared by Henry R. Watson. Salt Lake City, Utah state planning
board, 1935. 19p. mimeographed.
- Evaporation from a plain water surface. John Walter Leather.
Calcutta, Thacker, Spink & co., 1913. 15p.
India, D. A. Memoirs. Chemical series. v.3, no.1.
- Evaporation from free water surfaces. C. Rohwer. U. S. Department of
agriculture. Technical bulletin no.271. Washington, D. C.,
1931. 96p.
- Evaporation from irrigated soils. Samuel Fortier and S. H. Beckett.
U. S. Department of agriculture. Office of experiment stations.
Experiment station record no.248. Washington, D. C.,
1912. 77p.
- Evaporation from salt solutions and from oil-covered water surfaces.
Carl Rohwer. Journal of agricultural research. v.46.
p.715-729. April 15, 1933.

- Evaporation from the Salton sea. C. E. Grunsky. Engineering news.
v.60. p.163-166. August 13, 1908.
Describes the conditions and gives information concerning the evaporation
record made, and the special studies about to be made in the Salton basin.
- Evaporation from the surfaces of water and river-bed materials. Reuben
Benjamin Sleight. Journal of agricultural research. v.10. p.209-
262. July 30, 1917.
- Evaporation from water surfaces; a symposium. American society of civil
engineers. Transactions. v.99. p.671-747. 1934.
- Evaporation losses in irrigation. Samuel Fortier. Engineering news.
v.58. p.304-307. September 19, 1907.
Reviews studies recently made to determine the losses by evaporation in
irrigation in the state of California.
- Evaporation losses in irrigation and water requirements of crops. Samuel
Fortier. U. S. Department of agriculture. Office of experiment
stations. Bulletin no.177. Washington, D. C., 1907. 64p.
- Evaporation observations in the United States. Herbert Harvet Kimball.
Washington, D. C., U. S. Weather bureau, 1905. 4p.
- Experiments in evaporation. C. B. Ridgaway. Wyoming. Agricultural
experiment station. Bulletin no.52. Laramie, Wyo., 1902.
45-55p.
- Factors affecting the evaporation of moisture from the soil. F. S. Harris
and J. S. Robinson. Journal of agricultural research. v.7.
p.439-461. December 4, 1916.
- Irrigation investigations: Factors influencing evaporation and transpiration.
J. A. Widtsoe. Utah. Agricultural experiment station. Bulletin
no.105. Logan, Utah, 1909. 64p.
- Loss of water from reservoirs by seepage and evaporation. L. G. Carpenter.
Colorado. Agricultural experiment station. Bulletin no.45.
Fort Collins, Colo., 1899. 32p.
- Loss of water from soil during dry weather. John Walter Leather.
Calcutta, Thacker, Spink & co., 1908. 79-116p.
India, D. A. Memoirs. Chemical series. v.1, no.6.
- Losses from canals from filtration or seepage. L. G. Carpenter.
Colorado. Agricultural experiment station. Bulletin no.48.
Fort Collins, Colo., 1893. 36p.
- Losses of water in irrigation systems. P. H. Fogg. Engineering and contract-
ing. v.41. p.720-724. June 24, 1914. Considers methods for
the economical handling of water, particularly the losses from canals.

- Measurement of seepage losses in canals. O. V. P. Stout. Agricultural engineering. v.5. p.82-83. April 1924.
- Mountain snowfall observations and evaporation investigations in the United States. Frank Hagar Bigelow. U. S. Department of agriculture. Yearbook, 1910. Washington, D. C., 1911. p.407-412.
- Observations on the rate of the evaporation of water over reservoirs and lakes. Frank H. Bigelow. Washington, D. C., Weather bureau, 1908. 5p.
- On the amount of evaporation. Y. Horiguti. Monthly weather review. v.42. p.101-104. February 1914.
- Peak run-off data on restricted dry-wash channel. Engineering news record. v.81. p.531-533. September 19, 1918. Records taken at Lytle creek, California in January.
- Preliminary report on seepage water and the overflow of rivers. Samuel Fortier. Utah. Agricultural experiment station. Bulletin no.38. Logan, Utah, 1895. 35p.
- Problema di filtrazione di acqua attraverso un terreno permeabile. P. Alibrandi. Annali della Societa degli ingegneri e degli architetti italiani. v.24. p.397-402. August 15, 1909. Seepage problem in permeable soil. A mathematical discussion of the rate of filtration of water from irrigation ditches.
- Pumping seepage water from wells for irrigation. E. H. Neal. Engineering news record. v.104. p.1020. June 19, 1930. Abstract of report read at annual meeting of American society of agricultural engineers, describing experimental installation of four wells, in Boise river valley, in southwestern Idaho, to relieve water-logged land and furnish supplemental irrigation supply.
- Quantity of water used in irrigation and the seepage loss from canals. Samuel Fortier. Montana. Agricultural experiment station. Bulletin no.29. Bozeman, Mont., 1900. 44p.
- Rainfall penetration and consumptive use of water in Santa Ana river valley and coastal plain. A cooperative progress report by the Division of agricultural engineering of the U. S. Department of agriculture. 1930. Sacramento, Cal., California state printing office, 1930. 162p. California. Department of public works. Division of water resources. Bulletin no.33.
- Rate of water evaporation in Texas. R. E. Karper. Texas. Agricultural experiment station. Bulletin no.484. College Station, Texas, 1933. 27p.

- Recovery of return and seepage waters in California. T. R. Simpson.
Engineering news. v.93. p.751-754. November 6, 1924.
- Relationship between tree-growth and stream runoff in the Truckee river basin, California-Nevada. G. Hardman and O. E. Reil. Nevada. Agricultural experiment station. Bulletin no.141. Reno, Nov., 1936. 33p.
- Results of seepage measurements on the irrigation canals of the Twin Falls tract, Idaho. Engineering and contracting. v.38. p.416-419. October 9, 1912.
- Seepage and drainage, part I. E. T. Tammatt and A. P. Anderson. Montana. Agricultural experiment station. Bulletin no.65. Bozeman, Mont., 1907. 51-63p.
- Seepage and drainage, part II. E. T. Tammatt and R. D. Kneale. Montana. Agricultural experiment station. Bulletin no. 76. Bozeman, Mont., 1909. 111-162p.
- Seepage and drainage of irrigated land. H. E. Murdock. Montana. Agricultural experiment station. Bulletin no.255. Bozeman, Mont., 1932. 32p.
- Seepage and return waters. L. G. Carpenter. Colorado. Agricultural experiment station. Bulletin no.180. Fort Collins, Colo., 1911. 3v.
- Seepage from canals. Engineering record. v.38. p.274-275. August 27, 1898. Review of important investigations showing that in Colorado alone water worth \$6,000,000, at least, is lost through leakage from ditches.
- Seepage investigations in the valley of the Laramie river. B. P. Fleming. Wyoming. Agricultural experiment station. Bulletin no.61. Laramie, Wyo., 1904. 32p.
- Seepage losses from earth canals. E. A. Moritz. Engineering news. v.70. p.402-405. August 28, 1913. Discusses unpreventable losses; giving data on several hundred miles of canals, and diagram for estimating.
- Seepage losses in irrigation systems: their economic significance. E. G. Hopson. Scientific american supplement. v.75. p.56-59. January 25, 1913.
- Seepage of groundwater and its relation to the accumulation of alkali. D. S. Jennings and others. Utah. Agricultural experiment station. Circular no.106. Logan, Utah, 1934. 12p.

- Seepage or return waters from irrigation. L. G. Carpenter. Colorado. Agricultural experiment station. Bulletin no.33. Fort Collins, Colo., 1896. 63p.
- Seepage water. Chinese engineering society. Journal. v.5. p.394-451. June 1930. Compilation based on American papers, covering following subjects: ~~Seepage~~ from direct precipitation, from irrigated lands and conveyance systems, from reservoirs, mountain slopes and hillsides; seepage through dams and its prevention; net duty of water; relation between seepage water and irrigation.
- Seepage water, formerly wasted, now pumped for irrigation. J. Hornbein. Engineering news record. v.78. p.192-193. April 26, 1917.
- Soil mulches for checking evaporation. Samuel Fortier. U. S. Department of agriculture. Yearbook, 1908. Washington, D. C., 1909. p.465-472. Separate no. 495.
- Solving water waste problems. R. B. Sleight. Farm engineering. v.5. p.5. July 1917.
- Some field experiments on evaporation from snow surfaces. Frederick Storrs Baker. Monthly weather review. v.45. p.363-366. July 1917.
- South coastal basin investigation. Water losses under natural conditions from wet areas in southern California ... 1933. Sacramento, Cal., California state printing office, H. Hammond, state printer, 1934. 176p. California. Department of public works. Division of water resources. Bulletin no. 44.
- Studies on the rate of evaporation at Reno, Nevada, and in the Salton Sink. Frank H. Biglow. National geographic magazine. v.19. p.20-28. January 1908. Briefly describes this region and the formation of the Salton Sea, and gives results of studies made of the rate of evaporation.
- Study of the evaporation of water from a soil surface with reference to the fluctuations of water-table. V. I. Vaidhianathan and H. R. Luthra. Lahore, Supt. govt. print. Punjab, 1935. 8p. India. Punjab irrigation research institute. Research publications. v.5, no.3.
- Study of the influence of herbaceous plant cover on surface run-off and soil erosion in relation to grazing on the Wasatch plateau in Utah. C. L. Forsling. U. S. Department of agriculture. Technical bulletin no. 220. Washington, D. C., 1931. 71p.

Treatment of land soured and rendered unproductive by seepage. A. J. Perkins. Journal of the Department of agriculture of South Australia. v.21. p.845-850. June 1918.

Water efficiency and its improvement in irrigation systems. F. W. Hanna. Engineering record. v.64. p.561-562. November 11, 1911. Presents data on transportation losses of water, discussing methods of improvement needed.

Yield of water, rainfall, etc., on a moorland water shed. S. Hutton. Engineer. v.108. p.71-72. July 16, 1909. Gives results obtained and particular relating to two watersheds.

MAINTENANCE.

Canal-bank maintenance by disking on Imperial irrigation district; tractor-drawn disk supplants hand cutting of brush and bamboo. M. J. Dowd. Engineering news record. v.108. p.206-207. February 11, 1932.

How the Imperial irrigation district meets its problem of silt deposition and erosion. M. J. Dowd. Engineering and contracting. v.69. p.436-438. December 1930. Installing pipe siphons; special excavation for ditch cleaning; handling erosion problem; effect of uncontrolled water; building up land by silt deposit; carrying laterals over washes and drains.

Irrigation systems. Hob S. Stockton. Engineering journal. v.7. p.8-12. January 1924. Engineering features of operation and maintenance with particular reference to Western section irrigation project.

Lethbridge northern irrigation project. P. M. Sauder. Canadian engineer. v.52. p.477-483. May 3, 1927. Operation and maintenance of important irrigation scheme in Alberta; main factors that must be considered in design and construction of irrigation project; district contains irrigable area of 104,000 acres.

Maintenance of a Canadian irrigation flume; a 24 year old conduit successfully waterproofed with a coating of pitch and tallow. R. S. Stockton. Civil engineering. v.4. p.238-239. May 1934.

Maintenance of irrigation systems. Oregon. Agricultural college. Extension service. Circular no.194. Corvallis, Ore., 1922. 4p.

Minor repairs restore usefulness of earth dam in Arizona. Engineering news record. v.108. p.356-357. March 10, 1932.

Notes on the distribution of water and maintenance of works in the basin systems of upper Egypt. J. C. Ross. Cairo, 1892. 2v.

- Operation and maintenance of irrigation projects. D. W. Murphy.
Engineering record. v.64. p.170-171. August 5,
1911. Outlines the work and discusses the organization best
adapted for carrying it on.
- Operation and maintenance of irrigation systems. S. T. Harding.
New York, McGraw Hill book company, inc., 1917. 271p.
- Operation and maintenance of irrigation systems. F. H. Newell. Engineer-
ing record. v.66. p.610-612. November 30, 1912.
Review of progress since 1902, with suggestions.
- Operation and maintenance of irrigation systems. R. S. Stockton.
Engineering and contracting. v.61. p.584-588. March 12,
1924.

MEASUREMENT.

- Automatic devices for measuring water used for irrigation. F. W. Hanna.
Engineering news. v.60. p.666-668. December 17, 1908.
A summary of the methods most generally in use and discussion of
some of the best American devices invented for this purpose.
- Behavior of cup current meters under conditions not covered by standard
ratings. F. C. Scobey. Journal of agricultural research.
v.2. p.77-83. May 25, 1914.
- Colorado statute inch and some miner's inch measuring devices. V. H. Cone.
Colorado. Agricultural experiment station. Bulletin no. 207.
Fort Collins, Colo., 1915. 16p.
- Construction and use of farm weirs. V. M. Cone. U. S. Department of
Agriculture. Farmers' bulletin no.813. Washington, D. C., 1917.
18p.
- Construction und berechnung eines durch gegengewichte entlasteten, senkrecht
zu bewegenden eisernen rollschutzes. W. Schulz. Elektrotechnische
und polytechnische. v.28. p.73-75, 83-85. February 16, 22,
1911. Design and construction of a counterweighted rolling weir.
- Current meter rating station at the irrigation office, Department of
interior, Alberta. F. H. Peters. Canadian society of civil engineers.
Transactions. v.26. p.267-280. October 10, 1912.
Illustrates and describes the construction of a permanent station for
current meter rating.
- Dams and weirs; an analytical and practical treatise on gravity dams and
weirs; arch and buttress dams; submerged weirs; and barrages. W. G.
Bligh. Chicago, American technical society, 1917. 206p.

- Dethridge meter. V. M. Cone. Colorado. Agricultural experiment station. Bulletin no. 215. Fort Colling, Colo., 1915. 11p.
- Devices for measuring water. Civil engineering. v.5. p.218-224, 431-432, 488. April, July, August 1935. Symposium including following papers; Ten-foot weir and venturi meter compared, C. M. Allen and L. J. Hooper; Pitot tube in current practice, E. S. Cole; Bentzel velocity tube, F. H. Falkner.
- Discharge through adjustable submerged orifices. H. A. Wadsworth. Engineering news record. v.90. p.308-309. February 15, 1923. Experiments made at Sacramento and Fort Collins lead to increased accuracy of measuring irrigation water.
- Divisors for the measurement of irrigation water. V. M. Cone. Colorado. Agricultural experiment station. Bulletin no.228. Fort Collins, Colo., 1917. 52p.
- Experimentelle untersuchungen uber den abfluss des wassers bei vollkommenen uberfallwehren verschiedener grundrissanordnung. O. G. Aichel. Munchen und Leipzig, G. Franzscher verlag, 1907. 111p.
- Experiments in the use of current meters in irrigation canals. S. T. Harding. Journal of agricultural research. v.5. p.217-232. November 8, 1915.
- Experiments on small weirs and measuring modules. J. C. Stevens. Engineering news. v.64. p.171-176. August 18, 1910. Illustrated description of experiments with reference to their accuracy and their suitability for every-day gaging work in irrigation canals.
- Farm water measurement. M. R. Kulp. Idaho. University Extension division. Circular no.43. Boise, Idaho, 1932. 22p.
- Farmers' weir: one method of measuring water. Samuel Fortier. Montana. Agricultural experiment station. Bulletin no. 34. Bozeman, Mont., 1902. 29p.
- Flow through submerged rectangular orifices with modified contractions. V. M. Cone. Journal of agricultural research. v.9. p.97-114. April 23, 1917.
- Flow through weir notches with thin edges and full contractions. V. M. Cone. Journal of agricultural research. v.5. p.1051-1113. March 6, 1916.
- Gewijzigde inzichten in den bouw van prises d'eau in indische rivieren sedert 1887. A. G. Lanninga. Ingenieur. v.26. p.108-117. January 7, 1911. Weir construction in the Dutch East Indies since 1887. Describes a number of water-supply installations.

- Gibbs' module for irrigation works. Engineering. v.95. p.84-85.
January 17, 1913. Explains the requirements and illustrates and
describes a new type intended to meet the conditions.
- Goulburn weir and its dependent system of works. Descriptive memorandum
compiled from official records. Stuart Murray, chief engineer of
water-supply. Melbourne, 1893. 15p.
- Information on the measurement of irrigation water. O. W. Israelson.
Better fruit. v.14. p.8-10. December 1919.
- Islam weir, Sutlej valley project. Francis William Hall Downing. In-
stitution of civil engineers. Selected engineering papers no.69.
London, 1929. 16p.
- Measurement and distribution of irrigation water. L. M. Winsor. Utah.
Agricultural college. Extension division. Circular v.5, no.5.
Logan, Utah, 1912. p.20-36.
- Measurement and division of water. L. G. Carpenter. Colorado. Agri-
cultural experiment station. Bulletin no.13. Fort Collins, Colo.,
1890. 45p.
- Measurement and division of water. L. G. Carpenter. Colorado. Agri-
cultural experiment station. Bulletin no.27. Fort Collins,
Colo., 1894. 42p.
- Measurement of irrigation waters. D. H. Bark. Idaho, University.
Extension division. Bulletin no.3. Boise, Idaho, 1912. 11p.
- Measurement of irrigation water. G. D. Clyde. Utah. Agricultural
college. Extension division. Circular no.69. Logan, Utah, 1935.
8p.
- Measurement of irrigation water. H. E. Murdock and J. R. Barker.
Montana. Agricultural experiment station. Circular no.126.
Bozeman, Mont., 1924. 39p.
- Measurement of irrigation water. W. L. Powers. Oregon. Agricultural
college. Extension service. Circular no.4. Corvallis, Ore., 1917.
5p.
- Measurement of irrigation water. U. S. Bureau of reclamation. Washington,
D. C., Government printing office, 1935. 51p.
- Measurement of water. A. M. Ryon. Montana. Agricultural experiment
station. Bulletin no.6. Bozeman, Mont., 1895. 149-170p.
- Measurement of water. W. G. Steward. Idaho. Agricultural experiment
station. Bulletin no. 127. Boise, Idaho, 1922. 32p.

Measurement of water. E. T. Tammatt and R. D. Kneale. Montana. Agricultural experiment station. Bulletin no.72. Bozeman, Mont., 1908. 40p.

Measurement of water for irrigation. B. P. Fleming. Wyoming. Agricultural experiment station. Bulletin no.53. Laramie, Wyo., 1902. 60-117p.

Measurement of water for irrigation. J. B. Pope. Engineering news. v.36. p.371-376. December 3, 1896. Attempt to demonstrate the importance of abolishing the "miner's inch" and adopting cubic feet per second as a unit of measurement for all water systems. Tables, carefully calculated and their correctness demonstrated, are given with explanation.

Measurement of water, means available and their relative accuracy. Gardner S. Williams. Journal of the Western society of engineers. v.17. p.22-34. January 1912. Considers methods and devices used.

Measuring and recording deliveries of irrigation water to farms. J. S. Longwell. Engineering and contracting. v.51. p.169-170. February 12, 1919.

Measuring and recording devices for irrigation systems. W. G. Steward. Engineering news. v.68. p.390-392. August 29, 1912. Illustrates and describes current meters, canal gages, weir gages, automatic registers.

Measuring irrigation water. L. B. Robbins. Country gentleman. v.86. p.25. May 7, 1921.

Measuring water for irrigation. J. E. Christiansen. California. Agricultural experiment station. Bulletin no.588. Berkeley, Cal., 1935. 96p.

Measuring water in irrigation channels. R. L. Parshall. U. S. Department of agriculture. Farmers' bulletin no.1683. Washington, D. C., 1932. 17p.

Methods and devices for measuring water for irrigation. Albert Eugene Wright. Engineering and contracting. v.39. p.572-574. May 21, 1913. Explains methods of irrigation measurements and the devices used.

Methods of measuring irrigation water deliveries to farms. J. S. Longwell. Engineering and contracting. v.50. p.463-464. November 13, 1918.

Methods of preparing land and applying irrigation water. W. L. Powers. Oregon. Agricultural college. Extension service. Circular no.42. Corvallis, Ore., 1917. 6p.

- Most recent developments in the methods of measuring irrigation water to farms and irrigators. F. E. Trask. Municipal engineering. v.57. p.142-143. September 1919.
- New irrigation weir. V. M. Cone. Journal of agricultural research. v.5. p.1127-1143. March 13, 1916.
- New ways of measuring water. Scientific american. v.87. p.167. September 13, 1902.
- On the distribution of water for irrigation by measurement. R. G. Kennedy. Lahore, Supt. govt. print. Punjab, 1906. 32p. India. Punjab. Public works department. Irrigation branch. Paper no.12.
- On the measurement and division of water. L. G. Carpenter. Colorado. Agricultural experiment station. Bulletin no.150. Fort Collins, Colo., 1911. 42p.
- On the section of weirs. W. G. Bligh. Engineer. v.102. p.166-167. August 17, 1906. Reviews generally the subject of dams as introductory to a series of articles investigating the conditions governing the design of the section of weirs.
- Opere italiane delle Colonie. G. De Angelis. Ingegnere. v.1. p.248-254. November 1927. Genale diversion weir in Italian Somaliland. Reinforced-concrete hollow, open weir, 4.5, m. high, across Uebi Shebeli, for diverting irrigation water to 40,000 hectares tract in vicinity of Golwin and Merca.
- Optical level siltometer. V. I. Vaidhianathan. Lahore, Supt. govt. print. Punjab, 1933. 17p. India. Punjab irrigation research institute. Research publications. v.5, no.1.
- Practical information on the measurement of irrigation water. O. W. Israelsen. Utah. Agricultural experiment station. Circular no.36. Logan, Utah, 1919. 29p.
- Practical Venturi meter for irrigation service. J. E. Christiansen and H. H. Teilman. Engineering news record. v.106. p.187-188. January 29, 1931.
- Rating and use of current meters. C. Rohwer. Colorado. Agricultural experiment station. Technical bulletin no.3. Fort Collins, Colo., 1933. 153p.
- Selling water by current meter measurement. J. C. Allison. Engineering news. v.69. p.66-70. January 9, 1913. Map and description of the irrigation system of the California development co., relating to silt and other difficulties, and describing the use of current meters for water measurements, and the current meter rating flume at Calexico.

- Siltometer for studying size distribution of silts and sands. A. N. Puri.
Lahore, Supt. govt. print. Punjab, 1935. 6p. India.
Punjab irrigation research institute. Research publications. v.2,no.7.
- Some irrigation appliances in the San Bernardino valley, Cal. Engineering
news. v.42. p.148-149. September 7, 1899. Notes from
a publication of the U. S. Division of hydrography relating to the
measurement of streams. Describes a floating weir, a measuring box,
stop for diversion, and other appliances.
- Some measuring devices used in the delivery of irrigation water, by Cali-
fornia agents of irrigation investigations, Office of experiment
stations, U. S. Department of agriculture. California. Agricultur-
al experiment station. Bulletin no.247. Berkeley, Cal., 1915.
111-130p.
- Some methods of measuring irrigation water practiced by the U. S. Reclama-
tion service. Engineering and contracting. v.38. p.215-217.
August 21, 1912. Illustrated description of gages and methods
used.
- Sur un nouveau type de deversoir pour le jaugeage des eaux d'irrigation.
G. Mouret. Academie d'agriculture de France. Comptes rendus.
v.6. p.537-533. June 2, 1920.
- Tests of submerged orifice headgates for the measurement of irrigation
water. F. L. Dixby. New Mexico. Agricultural experiment station.
Bulletin no.97. State College, N. M., 1915. 56p.
- Units of measurement and the application of irrigation water. C. C. Wright.
Washington. Agricultural experiment station. Popular bulletin no.145.
Pullman, Wash., 1929. 24p.
- Venturi and weir measurements. C. M. Allen and L. J. Hooper. Mechanical
engineering. v.57. p.369-374. June 1935.
40 yr. of comparative records of 10-ft contracted weir and 36 by 16 in.
venturi meter.
- Venturi flume. V. M. Cone. Journal of agricultural research. v.9.
p.115-129. April 23, 1917.
- Walzenwehr an der Trisanna. Alfred Wessely. Zeitschrift des oesterr-
eichischen ingenieur und architekten vereins. v.62. p.629-633.
October 7, 1910. Rolling weir on the Trisanna. Illustrated
description of an installation in Austria.
- Walzenwehr im neckar bei poppenweiler und die walzenwehre in allgemeinen.
Deutsche bauzeitung. v.44. p.53-55.
January 29, 1910. Rolling weir at Poppenweiler on the Neckar and
rolling weirs in general.

- Water measurement and manipulation in Colorado. H. A. Crafts.
Scientific american. v.83. p.85. August 11, 1900.
Illustrations with description of the method of distributing water
for irrigation purposes.
- Water measurement on irrigation project. C. C. Cragin. Engineering
and contracting. v.59. p.406-409. February 14, 1923.
- Water measurements. B. C. Duffum. Laramie, Wyo., 1900. 16p.
Published as part of the 10th annual report of the Wyoming experiment
station.
- Weir experiments, coefficients, and formulas (revision of paper no.150.)
Robert E. Horton. Washington, D. C., Government printing office,
1914. 192p. U. S. Geological survey. Water supply
and irrigation paper no.200.
- Weirs and their construction. A. C. Jennings. Rhodesia agricultur-
al journal. v.20. p.158-165. April 1923.
- Weirs for measuring small irrigating streams. G. E. P. Smith. Arizona.
Agricultural experiment station. Timely hints for farmers no.157.
Tucson, Ariz., 1927. 11p.
- Weirs on porous foundations and with pervious floors. W. G. Bligh.
Engineering news. v.65. p.444-445. April 13, 1911.
Discusses the design of weirs which are not provided with any
impervious horizontal apron.

METHODS.

General

- Application of water in irrigation. A. C. Jennings. Rhodesia agri-
cultural journal. v.18. p.56-64. February 1921.
- Application of water in irrigation. R. H. Roberts. Rhodesia agri-
cultural journal. v.28. p.170-184. February 1931.
- Changed irrigation practice. V. F. Blanchard. California cultivator.
v.13. p.120. February 1928.
- Choose an economical irrigation system. D. L. Kieffer. Pacific
rural press. v.107. p.372. March 15, 1924.
- Comparison de l'irrigation superficielle et de l'irrigation souterraine
dans le Sud-Algerien. G. Chevalier. Academie d'agriculture de
France. Comptes rendus. v.21. p.682-686. May 15, 1935.

Comparison of sprinkler and furrow system of irrigation on water penetration.
C. C. Wright. Washington. State horticultural association.
Proceedings, 1930. Olympia, Wash., 1931. p.30-37.

Les differents systemes d'irrigation; documents officiels precedes de
notices historiques. Bruxelles, Institut colonial international, 1906.
lv.

Distribution systems, methods and appliances in irrigation. J. S. Dennis,
H. F. Muckleston and Robert S. Stockton. International engineering
congress, Transactions, 1915. p.398-413.

East practicing supplemental irrigation. Irrigation age. v.33
p.135. July 1918.

Efficiency in handling irrigation water. R. V. Bingham. Better fruit.
v.19. p.7-8. July 1924.

Efficient application of irrigation water. R. B. Sleight. Farm
engineering. v.3. p.192. March 1916.

Flooding versus overhead irrigation. C. D. Miller. Market growers
journal. v.40. p.110. February 1, 1927.

Flowing water - VI. J. H. Lacey. Engineer. v.153.
p.604-606. June 3, 1932. Different systems of irrigation;
by canals and feeders, by infiltration canals and by floodings; and
system, known as warping, for retaining matter in suspension in water,
which consists in allowing waters highly charged with sediment to flow
over land and to deposit tranquilly matter they contain; method of
cultivation; waterings.

Handy watering system. R. W. DeBaun. Rural New Yorker. v.75.
p.975. July 15, 1916.

Irrigating with an automobile. H. W. Doyle. Country gentleman.
v.81. p.1765. September 30, 1916.

Irrigation methods on eastern farms. R. DeBaun. Rural New Yorker.
v.87. p.1002. July 28, 1928.

Irrigation methods vs drouth. Market growers journal. v.59.
p.318-321, 331. August 1 - 15, 1936.

Irrigation practice in eastern states. F. E. Staebner. Agricultural
engineering. v.13. p.264. October 1932. Review
of spray irrigation and sub-irrigation practice in eastern United States,
with special reference to Florida; use of spray irrigation for pro-
tection against frost damage.

Irrigation studies. Elwood Mead. American society of civil engineers.
Transactions. v.44. p.149-180. 1900.
Extracts from the report of the U. S. Department of agriculture, concerning
methods of distributing and using water in irrigation.

- Irrigation systems of different countries. U. S. Commissioner of agriculture. Report, 1871. Washington, D. C., 1872. p.275-287.
- Modes and results of irrigation. U. S. Department of agriculture. Report, 1870. Washington, D. C., 1871. p.576-584.
- Method of farm garden irrigation. J. H. Painter. Farhandle. Agricultural experiment station. Bulletin no.4. Goodwell, Olla., 1929. 10-14p.
- Methods of applying irrigation water. C. J. Halton. Purdue agriculturist. v.11. p.9-11. December 1916.
- Methods of applying water to crops. Samuel Fortier. U. S. Department of agriculture. Yearbook, 1909. Washington, D. C., 1910. p.293-308. Separate no.514.
- Methods of harvesting and irrigation in relation to moldy walnuts. L. D. Batchelor. California. Agricultural experiment station. Bulletin no.367. Berkeley, Cal., 1923. 677-696p.
- Methods of irrigation. F. P. Hallahan. American society of irrigation engineers. v.2. p.68-69. April 1895. Describes the two methods in general use, and favors the modern method.
- Methods of irrigation in relation to the alkali problem. Carl S. Scofield. Washington, D. C., U. S. Department of agriculture, 1923. 9p. mimeographed.
- Methods of preparing land and applying water for irrigation. Engineering and contracting. v.37. p.131-132. January 31, 1912. Considers prevailing practice in the United States.
- Methods of preparing land and applying water for irrigation. Engineering and contracting. v.37. p.247-251. February 28, 1912. Describes the check method and the border method.
- Modern methods of irrigation. R. Kent. Field illustrated. v.30. p.650. July 1920.
- Mulched-basin system of irrigated citrus culture and its bearing on the control of mottle leaf. L. J. Briggs and others. U. S. Department of agriculture. Department bulletin no.499. Washington, D. C., 1917. 31p.
- New irrigation system. M. Alger. Scientific american supplement. v.61. p.25300-25301. April 7, 1906. Illustrated description of a system invented by Dr. August Koren, Jr., a Norwegian physician, especially adopted for gardens and small farms.

- Possibilities and need of supplemental irrigation in the humid region.
M. D. Williams. U. S. Department of agriculture. Yearbook, 1911.
Washington, D. C., 1912. p.309-320.
- Primitive irrigation methods still compete with modern machinery.
Scientific american. v.137. p.28-29. July 1927.
- Subirrigation versus surface irrigation. J. W. Sanborn. - Water for
irrigation. Samuel Fortier. Utah. Agricultural experiment
station. Bulletin no.26. Logan, Utah, 1893. 28p.
- Supplemental irrigation in the humid regions. Engineering and con-
tracting. v.38. p.249-251. August 28, 1912.
Abstract from a discussion by Milo D. Williams showing the need of
supplemental irrigation in the growing of the more valuable crops.
- Supplemental irrigation on the Atlantic coast. F. E. Staebner and G. A.
Mitchell. Agricultural engineering. v.11. p.101-104.
March 1930. Surface and subirrigation in Florida; spray irrigation
for frost protection in Florida; spray irrigation and sewage irrigation
in New Jersey.
- Surface and sub-surface irrigation. C. H. Nissley. New Jersey agri-
culture. v.13. p.6. July 1931.
- Surface and sub-irrigation out of doors. F. W. Rane. New Hampshire.
Agricultural experiment station. Bulletin no.34. Durham, N. H.,
1896. 27p.
- Surface irrigation for eastern farms. F. W. Stanley. U. S. Department
of agriculture. Farmers' bulletin no.899. Washington, D. C.,
1917. 35p.
- Surface irrigation in the eastern states. F. E. Staebner. U. S.
Department of agriculture. Farmers' bulletin no.1635. Washington,
D. C., 1930. 37p.

Border Method.

- Border method of irrigation. S. Fortier. U. S. Department of agri-
culture. Farmers' bulletin no.1243. Washington, D. C., 1927.
35p.
- Border method of irrigation for porous soils. R.W. Allen. Engineering
and contracting. v.50. p.170-171. August 14,
1918. Explains method and preparation of land.

Formula for border strip irrigation. R. D. Goodrich. Civil engineering. v.4. p.210-212, 493-494. April, September 1934.
Relation between time of application, length of strip, and soil permeability; comparison of observed time required to irrigate two strips of land.

Check Method.

Contour check method of orchard irrigation. J. B. Brown. California. Agricultural extension service. Circular no.73. Berkeley, Cal., 1933. 19p.

Irrigating with contour checks. J. H. Currie. Pacific rural press. v.127. p.287. March 31, 1934.

Corrugation Method.

Corrugation method of irrigation. Engineering and contracting. v.61. p.359-360. February 1924. Notes on method
well adapted for efficient application of water to steep or irregular slopes.

Corrugation method of irrigation. J. C. Marr. U. S. Department of agriculture. Farmers' bulletin no.1343. Washington, D. C., 1923. 24p.

Distribution of water in the soil in furrow irrigation. R. H. Loughridge. U. S. Department of agriculture. Office of experiment stations. Bulletin no.203. Washington, D. C., 1908. 63p.

Furrow irrigation in growing potatoes. R. G. Risser. Pacific rural press. v.113. p.561. April 23, 1927.

Irrigation of orchards by contour furrows. H. R. Huberty and J. B. Brown. California. Agricultural extension service. Circular no.16. Berkeley, Cal., 1928. 16p.

Flood Method.

Act of floating land, as is practised in the county of Gloucester, shewn to be preferable to any other method in use in this country; with a particular examination of what Mr. Boswell, Mr. Davis, Mr. Marshall, and others, have written on the subject. Minute and plain directions are afterwards given, for the formation of a floated meadow. Thomas Wright. London, Printed by J. Rider, 1799. 95p.

Flood irrigation. H. E. Murdock and H. L. Lantz. Montana. College of agriculture and mechanic arts. Extension service. Circular no.17. Bozoman, Mont., 1931. 7p.

Flood-water farming. K. Bryan. Geographical review. v.19. July 1929. p.444-456.

Irrigation by flooding in the Big Bend section of Washington. A. D. Crane. Washington. State college. Department of extension. Bulletin no. 146. Pullman, Wash., 1927. 11p.

Overhead.

Abstract of tests of distribution of spray irrigation equipment. F. E. Staebner. International congress of soil science. Proceedings, 2d. v.6. 1932. p.167.

Application of water by means of sprinklers. A. G. Salter. California cultivator. v.82. p.450. August 3, 1935.

L'arrosage en grand culture. R. Henry-Girard. Journal d'agriculture pratique. v.62. p.235-236, 529-531. v.63. p.9-11. September 22, December 29, 1934, January 5, 1935.

Artificial rain from artificial clouds. Engineering and contracting. v.46. p.512. December 13, 1916.

Beregnungstechnik in dienste der deutschen ernahrungswirtschaft. G. Schonnopp. Verein deutscher ingenieure. Zeitschrift. v.78. p.637-638. May 26, 1934. Review of German methods and equipment used for overhead irrigation of gardens.

Boden und abwasserberegnung. F. Zunker. International congress of soil science. Proceedings, 2d. v.6. 1932. p.153-157.

Building a colery business on peat and irrigation. Market growers journal. v:59. p.443. November 15, 1936.

Comparison of sprinkler and furrow system of irrigation on water penetration. C. C. Wright. Washington. State horticultural association. Proceedings, 1930. Pullman, Wash., 1931. p.30-37.

Cost of installing an overhead sprinkling system. F. H. Macpherson. California citrograph. v.9. p.333. July 1924.

Design of overhead irrigation systems. E. S. West and A. Howard. Melbourne, Council for science and industrial research, 1934. 39p.

Does overhead irrigation pay? F. E. Deatty. Green's fruit grower. v.37. p.3. April 1917.

- Effect of overhead sprinklers on insects and their control. A. Spuler. Washington. State horticultural association. Proceedings, 1930 Pullman, Wash., 1931. p.54-56.
- Effect of sprinkling irrigation upon the physical condition of soils and upon the efficiency of plant food utilization. S. C. Vandecaveye. Washington. State horticultural association. Proceedings, 1930. Pullman, Wash., 1931. p.38-40.
- Effective portable spray irrigation layout. F. E. Staebner. Washington, D. C., U. S. Department of agriculture, Bureau of agricultural engineering, 1935. 6p. mimeographed.
- Effectiveness of irrigation by overhead sprinkling. H. A. Wadsworth. California citrograph. v.12. p.114. February 1927.
- Efficiency in overhead irrigation. O. H. Englehart. California cultivator. v.80. p.334-335. July 8, 1933.
- Electricity and spray irrigation; electric pumps producing artificial rain. P. A. Bates. Scientific american., v.107. p.364. November 2, 1912.
- Experience with overhead irrigation. C. P. Foote. Farmer's advocate. v. 59. p.821. May 29, 1924.
- Esperimenti di irrigazione a pioggia. U. Ramponi. Ingegnere. v.3. p.394-404. July 1929. Experiments with overhead irrigation. General discussion of agricultural and engineering features of overhead irrigation; report on Italian national irrigation competition; data on portable engine and pump units, types of nozzles, pipes and pipe stands; cost data.
- Feldberechnung. E. Kruger. Berlin, P. Parey, 1919. 50p.
- Feldberechnung in mittelddeutschland. Hans Marting. Berlin, Deutsche landwirtschafts-gesellschaft, 1927. 66p. Arbeiten der Deutschen landwirtschafts-gesellschaft. hft. 354.
- Flower seed firm adopts overhead irrigation. California cultivator. v.79. p.375. December 10, 1932.
- Four years use of overhead sprinkling system convinces Escondido grower of its value. H. R. Greaves. California cultivator. v.14. p.253. April 1929.
- Frost protection by sprinkling. Market growers journal. v.41. p.677. August 15, 1927.
- Un gran sistema de riego por aspersión. La Hacienda. v.29. p.200. June 1934.
- Growers see overhead irrigation systems in operation. California citrograph. v.10. p.5. November 1924.

- Installation of overhead spray system on 14 acre lot. A. Schunacher.
Market growers journal. v.39. p.690. August 15, 1923.
- Installing overhead irrigation system. J. A. Gustafson. Market growers
journal. v.30. p.295. May 15, 1922.
- Irrigating orchards by sprinkling. W. F. Luce. Better fruit.
v.25. p.5-6. July 1930.
- Irrigation and the drouth in 1930. A. Schunacher. Market growers journal.
v.48. p.280-282. April 1, 1931.
- Irrigation: portable overhead. W. B. Nissley. Pennsylvania. State
college. Division of agricultural extension. Leaflet no.37. State
college, Pa., 1935. 8p.
- Irrigation by overhead sprinkling. H. A. Wadsworth. California.
Agricultural extension service. Circular no.4. Berkeley, Cal.,
1926. 37p. Working data on the planning and installation of
overhead sprinkling irrigation systems for California agriculture are
presented, which are based on studies conducted by the California
experiment station.
- Irrigation by overhead sprinkling. H. A. Wadsworth. Sugar. v.30.
p.6-7, 67-68. January-February 1928.
- Irrigation by overhead sprinkling. H. A. Wadsworth. California
countryman. v.12. p.11. January 1926.
- Irrigation by overhead sprinkling in California. H. A. Wadsworth.
Agricultural engineering. v.7. p.177. May 1926.
- Irrigation for horticultural market crops. F. A. Secrett. Royal
horticultural society. Journal. v.60. p.294-303. July 1935.
- Irrigation methods on eastern farms. R. De Daun. Rural New Yorker.
v.37. p.1002. July 23, 1923.
- Irrigation of orchards by sprinkling. F. L. Overley and others.
Washington. Agricultural experiment station. Bulletin no.268.
Pullman, Wash., 1932. 50p.
- Irrigation of vegetable crops. Gardeners' chronicle. v.97.
p.339. June 15, 1935.
- Irrigation or overhead watering. American florist. v.57.
p. 170. August 6, 1921.

- Irrigazioni a pioggia. C. Ruggiero. Annali dei lavori pubblici.
v.66. p.572-580. June 1928. Overhead
irrigation. Advantages of overhead irrigation; principles and
engineering data on capacities and power requirements of overhead
irrigation systems; costs per hectare.
- Is overhead irrigation here to stay? H. D. Rounds. California
citrograph. v.11. p.152. March 1926.
- Is overhead irrigation worth what it costs? R. E. Hodges. Pacific
rural press. v.115. p.340. March 17, 1923.
- Machines elevatoires pour l'utilisation des eaux souterraines et leurs
moteurs. Blanc. Academie d'agriculture de France. Comptes
rendus. v.17. p.192-193. February 18, 1931.
- Making artificial rain in the southwest; portable pipes and sprinklers.
G. K. Spencer. Travel. v.64. p.38. December 1934.
- Methods of installation and operation of sprinkler systems. H. L. Garver.
Washington. State horticultural association. Proceedings, 1930.
Pullman, Wash., 1931. p.24-29.
- My experiences in irrigating fruits and vegetables. A. M. Streed. Hoosier.
horticulture. v.15. p.78-80. 1933.
- My experiences with overhead irrigation. B. E. Needham. California
citrograph. v.14. p.192. March 1929.
- Observation on control of citrus insects by overhead irrigation. J. R.
La Follette and W. E. Landon. California citrograph. v.12.
p.135. February 1927.
- Observations of apple and pear diseases under overhead irrigation. C. P.
Harley and E. L. Reeves. Washington. State horticultural
association. Proceedings, 1930. Pullman, Wash., 1931. p.43-
50.
- Orchard irrigation by mobile pipe system. M. Davey. Journal of
agriculture of New Zealand. v.37. p.118-119. August 1928.
- Orchard overhead irrigation. Pacific rural press. v.131. p.346-
347. March 14, 1936.
- Overhead in the garden. T. H. Parks. Garden irrigation. J. B. Mar-
cellus. Kansas. Agricultural college. Division of college ex-
tension. X form no.31. Manhattan, Kan., 1918. 2p.
- Overhead irrigation. E. Draunton. California cultivator. v.64.
p.302. March 14, 1925.

- Overhead irrigation. W. H. Coles. Iowa. State horticultural society.
Report, 1931. Des Moines, Iowa, 1932. p.260-264.
- Overhead irrigation. F. M. Loomis. Farm engineering. v.4.
p.75. November 1916.
- Overhead irrigation. T. M. Mulligan. Ontario vegetable growers' assoc-
iation. Report, 1916. Toronto, 1917. p.55-59.
- Overhead irrigation. A. L. Pino. Market growers journal. v.41.
p.676. August 15, 1927.
- Overhead irrigation-details covering installation of system. F. H.
Macpherson. California citrograph. v.9. p.450.
October 1924.
- Overhead irrigation-things we have yet to learn. H. A. Wadsworth.
California citrograph. v.10. p.348. August 1925.
- Overhead irrigation and the application of fertilizer thereby. J. A.
Frizer. California citrograph. v.14. p.276. May 1929.
- Overhead irrigation applied to citrus husbandry. F. H. Macpherson.
California citrograph. v.11. p.209. April 1926.
- Overhead irrigation at the Seabrook farms, New Jersey. C. F. Seabrook.
Engineering and contracting. v.48. p.112-115. August 8, 1917.
- Overhead irrigation for small areas. H. F. Huber. Rural New Yorker.
v.83. p.422. March 8, 1924.
- Overhead irrigation for sugar beets. C. W. Geiger. Facts about sugar.
v.30. p.53-54. February 1935. Notes on irriga-
tion by overhead system, in which conditions of natural rainfall are
simulated, and which, it is claimed, saves labor, time and water.
- Overhead irrigation for the garden. D. Day. Fruit grower. v.27.
p.237. April 1, 1916.
- Overhead irrigation for vegetable crops. C. Tillman. Minnesota hort-
iculturist. v.54. p.73-78. March 1926.
- Overhead irrigation gains. E. Fraunton. California cultivator.
v.72. p.350. March 23, 1929.
- Overhead irrigation in New Jersey and New Hampshire. Market growers
journal. v.42. p.166. February 15, 1928.
- Overhead irrigation in the foothills. J. Thompson. California citro-
graph. v.15. p.256. April 1930.

- Overhead irrigation in the garden. F. Sestier. Minnesota
horticulturist. v.48. p.31-32. March 1920.
- Overhead irrigation in the dry summer of 1930. F. M. Fazel. Iowa.
State horticultural society. Report, 1930. Des Moines, Iowa, 1931.
p.362-364.
- Overhead irrigation on Vancouver island. L. Stevenson. Agricultural
journal of British Columbia. v.6. p.214-215. November 1921.
- Overhead irrigation restores grove. D. J. Whitney. California
cultivator. v.83. p.120. February 15, 1936.
- Overhead irrigation system of the R. M. Kellogg co., Three rivers, Mich.
Engineering and contracting. v.47. p.160-161. February 14,
1917.
- Overhead systems of irrigation. Engineering and contracting. v.47.
p.253-255. March 14, 1917.
- Plumber as a rain maker. E. Williams. Domestic engineering. v.118.
p.18-20. March 5, 1927.
- Portable sprinkling system. J. E. Christiansen. California
cultivator. v.81. p.155. March 31, 1934.
- Rain for the asking. Troy, Ohio, Skinner irrigation co., 1926. 28p.
- Rain when needed. J. Klein. California cultivator. v.80.
p.211. April 29, 1933.
- Results with overhead irrigation at Ames. E. S. Haber. Market growers
journal. v.46. p.89. February 1, 1930.
- Riego de huertos y jardines. J. W. Richardson. La hacienda. v.30.
p.370-371. November 1935.
- Semi automatic sprinkling system for the small nursery. D. J. Weddell.
Journal of forestry. v.33. p.691-692. July 1935.
- Shower baths for trees. E. Draunton. California cultivator. v.74.
p.371. March 29, 1930.
- Six years experience in sprinkling. W. E. Wholers. Washington.
State horticultural association. Proceedings, 1930. Pullman, Wash.,
1931. p.57-59.
- Some experiences in irrigating asters and vegetables. A. M. Streed.
Minnesota horticulturalist. v.63. p.48. March 1935.

- Some mechanical phases of overhead irrigation. E. R. Gross. Market growers journal. v.40. p.202. March 15, 1927.
- Spray irrigating devices. H. Preuss. Engineering progress. v.10. p.312-314. December 1929. New principle which avoids all drawbacks of previous systems is employed in spray irrigator of Siemens-Schuckertwerke; irrigating nozzle uniformly waters square of 200 and up to 1000 sq. m. (20,000 to 10,000 sq. ft.) area in about 1 min.; it is built for water consumption of from 60 to 175 liters per minute.
- Spray irrigation. G. Deverloy. Journal of the Department of South Australia. v.20. p.885-886. June 1917.
- Spray irrigation. H. J. Gallagher. Market growers journal. v.33. p.77-78. August 1, 1923.
- Spray irrigation. M. D. Williams. U. S. Department of agriculture. Department bulletin no.495. Washington, D. C., 1917. 40p.
- Spray irrigation in the eastern states. G. A. Mitchell and F. E. Staebner. U. S. Department of agriculture. Farmers' bulletin no.1529. Washington, D. C., 1927. 26p. Types of spray irrigation systems described and illustrated. Data on planning and installing systems; cost of operation and upkeep, and profits to be derived.
- Sprinkler and irrigation system. Plumbers trade journal. v.89. p.18-19. August 15, 1930. Frost and drought cost American horticulturists, fruit and vegetable growers millions of dollars annually; good watering systems are effective remedy of universal acceptance.
- Sprinkler irrigation of vegetables and small fruits in Minnesota. Minnesota. University. Agricultural extension division. Agricultural engineering news letter no.13. St. Paul, Minn., 1933. 1p.
- Sprinkling irrigation on vegetable farms in New Jersey. H. F. Huber and others. New Jersey. Agricultural experiment station. Bulletin no. 453. New Brunswick, N. J., 1927. 48p.
- Sprinkling system for orchards. J. E. Christiansen. California cultivator. v.83. p.389. May 23, 1936.
- Statement of Skinner system. W. H. Coles. Market growers journal. v.41. p.683. August 15, 1927.
- Stationary spray (electric) plants increasing (in Wenatchee area, Washington) L. J. Smith. Agricultural engineering. v.8. p.140. June 1927. 360 electrically operated stationary spray outfits take care of 4,000 acres of orchard. Considered standard apparatus for orchard work in Wenatchee country.

Success or failure in overhead irrigation at Fairbanks ranch. J. G. Cline.
California citrograph. v.14. p.451: September 1929.

Sugli impianti di irrigazione a pioggia. G. Mainardi. Ingegneri.
v.3. p.787-802. December 1929. Overhead irrigation
plants. Review of recent improvements in Italian practice; details
of fittings.

Suspension method and automatic oscillating device for overhead irrigation
systems. Engineering and contracting. v.47. p.35-36.
January 10, 1917.

Tests of spray irrigation equipment. F. L. Staebner. U. S. Department
of agriculture. Circular no.195. Washington, D. C., 1931. 29p.

Use of sprinklers in orchard irrigation. H. C. Diehl. Washington,
State horticultural association. Proceedings, 1930. Portland,
Wash., 1931. p.51-53.

Wasserverteilung verschiedener berechnungs-apparate bei verschieden
starken wind. Paul Szobotka. Budapest, 1928. 46p.

Water the vegetables. E. R. Gross. New Jersey agriculture. v.10.
p.6-7. January 1928.

Why water, how and when. Garden and home builder. v.47. p.283.
May 1928.

Porous Hose.

Canvas hose system of irrigation. G. Amundson. Agricultural engineer-
ing. v.14. p.207-209. August 1933. Report on
Michigan state college experiments on profitability of irrigation
of potatoes by canvas hose process; cost of irrigation with canvas
hose including average man hours per acre inch.

Development of porous hose method of irrigation in Michigan. O. E. Robey.
Agricultural engineering. v.15. p.332-333. August 1934.
Distribution of irrigation water by means of porous canvas pipe 2 1/2
in. in diameter laid along center of row of truck garden; using hose
as long as 660 ft. one man may irrigate 3 acres in 10 hr.; cost of
equipment for 10 to 15 acres of garden may be from \$300 to \$500 and
cost of applying water may be from \$1.75 to \$2.75 per acre inch.

Irrigating potatoes with a porous canvas hose. O. E. Robey. Michigan.
Agricultural experiment station. Quarterly bulletin. v.14.
p.142-146. February 1932.

- Irrigation, porous canvas hose. J. R. Haswell. Pennsylvania.
School of agriculture. Department of agricultural extension. Leaflet
no.37. State college, Pa., 1935. 7p.
- Little experience with porous hose. C. E. Haw. Market growers journal.
v.55. p.243. July 1, 1934.
- Making an irrigating system out of odds and ends. L. A. Somers.
Market growers journal. v.55. p.244. July 1, 1934.
- Our experience with canvas hose irrigation in the orchard. C. E. Dutton.
Ohio. State horticultural society. Proceedings, 1933. p.70-78.
- Plumber as a rain maker. E. Williams. Domestic engineering.
v.113. p.18-20. March 5, 1927.
- Porous hose irrigation. O. E. Robey. Michigan. College of
agriculture and applied science. Extension division. Bulletin no.
133. East Lansing, Mich., 1933. 22p.
- Porous hose irrigation profitable. Extension service review. v.5.
p.157. October 1934.
- Porous hose method of irrigation for vegetable crops in Iowa. A. T.
Erwin. Iowa. State horticultural society. Report, 1933.
Des Moines, Iowa, 1934. p.251-253.
- Use of canvas hose in irrigating orchards. E. H. Hoppert. Nebraska.
Board of agriculture and inspection. Report, 1935. Lincoln, Neb.,
1936. p.537-538.
- Using porous hose in high row crops. O. E. Robey. Michigan.
Agricultural experiment station. Quarterly bulletin v.17.
p.225-228. May 1935.

Sewage Irrigation.

- Abwaesserbeseitigung durch verregnung. O. Schroeder. Gesundheits
ingenieur. v.54. p.652-653. October 31, 1931. Sewage
disposal by overhead irrigation. Practice of sewage disposal plant of
Obrawalde sanitarium, near Meseritz, Germany; underground mains fitted
with hydrants carry settled sewage to spray feed pipes, 3 cm. diam. laid
above ground; revolving spray will feed area of 54 sq. m. from any one
point.
- Abwasser grossklarwerk Berlin Stahnsdorf. F. Langbein. Zeitschrift
des vereines deutscher ingenieure. v.74. p.1349-1353.
September 27, 1930.

- Abwasserrinigung und Schlammverrieselung. K. Buchner. Gesundheitsingenieur. v.53. p.361-364. June 7, 1930.
Sewage treatment and sludge irrigation. Improved, three story type of Enscher sewage tank has special chamber with basin for collection of fats and greases; engineering, agricultural, and economic advantages of irrigation with liquefied sludge distributed through pumps and movable pipe lines; detailed cost data.
- Agricultural experience of 300,000 tons of north London sewage, 1887. J. Chalmers Morton. London, F. Warne and co., 1868. 31p.
- Allgemeiner wirtschaftsplan für die rieselgüter der stadt Berlin, vorgelegt im oktober 1904. A. Backhaus. Berlin, Druck von W. & S. Loowenthal, 1905. 80p.
- Annual report on the working of the sewage farm at Manjri. Bombay. Department of land records and agriculture. 1902/03. Bombay, 1903.
- Ausbau der Leipziger abwasserbehandlungs anlagen. F. Mieder. Gesundheitsingenieur. v.58. p.197-209. April 13, 1935. Extension of Leipzig sewage treatment plant; sewage irrigation in Delitzsch district; treatment is by passage through sand traps and settling basins; illustrated description of irrigated land, sewage treatment plant, pipe line and pumping station.
- Bericht über den gegen-wärtigen stand der abfuhr-und kanalisationsfrage in grossbritannien. W. Lefeldt. Landwirtschaftliche jahrbucher. v.1. p.431-532. 1872.
- Broad irrigation with sewage. G. E. F. Smith. Agricultural engineering. v.9. p.345. November 1928.
- Chemische utersuchungen über die hygienische und landwirthschaftliche bedeutung der Breslauer rieselfelder. Reinhard Klopsch. Landwirtschaftliche jahrbucher. v.14. p.109-147. 1885.
- Gras der spuljauchen-rieselwiese zu Berlin 1872. Landwirtschaftliche jahrbucher. v.3. p.249-262. 1872.
- Disposal of packing house waste by irrigation at Laredo, Texas. C. Cohen. Public works. v.59. p.377-378. October 1928. This method seems to be most economical process for treatment and disposal of such heavy and highly organic wastes as originate in packing plants and slaughter houses; Laredo layout was able to handle around 7000 gal. of sewage per acre per day.
- Dortmunder rieselfelder, ihre einrichtung, bewirtschaftung, und volkswirtschaftliche bedeutung. Richard Schulte Baukloh. Giessen, 1925. 3p.

- Dungen mit abwasser. Hermann Bach. Stadtereinigung. v.27.
p.723-725. 1935.
- Dungerwesen auf der allgemeinen ausstellung in Paris 1878 und die dung-
ung mit cloakenwasser zu Genevilliers. Richard Braungart.
Journal fur landwirtschaft. v.27. p.53-78. 1879.
- Effect of irrigation with sewage effluent on the yields and establish-
ment of napier grass and Japanese cane. W. E. Stokes and others.
Florida. Agricultural experiment station. Bulletin no. 215.
Gainesville, Fla., 1930. 18p.
- Einige auf grund statistischer erhebungen und chemischer analysen fest-
gestellte zahlen fur die menge von pflanzennahrstoffen, welche in den
wirklich zur abfuhr gelangenden unrathmengen einiger stadt enthalten
sind. H. A. M. Fleischer. Landwirtschaftlichen versuchsstationen.
v.26. p.374-380. 1880.
- Einige mittheilungen uber die zusammen-setzung des heues von spuljauchen-
rieselwiesen und die frage der futterung von phosphorsauren kalk.
Paul Ehrenberg. Landwirtschaftlichen versuchsstationen. v.68.
p.19-38. 1908.
- Elsasser sch wiesenbauverfahren behufs nutzbarmachung der abflusswasser
aus allen landw.-techn. nebegewerben, wie auch der stadt, kanalwasser,
einschl. der spulwasser aus schlachthausern. Journal fur land-
wirtschaft. v.44. p.195-200. 1896.
- Epuration des eaux d'egout par l'epandage, par les lits bacteriens et par
les boues activees. E. Marcotte. Genie civil. v.98.
p.365-366. April 11, 1931.
- Experiences with sewage farming in southwest United States. V. M. Ehlers,
F. C. Roberts, jr., E. A. Reinke. American journal of public
health. v.25. p.119-127. February 1935.
- Experimental sullage farm, Lyallpur. P. E. Lander. Calcutta,
Government of India, Central publication branch, 1905. 25p.
Pusa. Agricultural research institute. Bulletin no. 157.
- Experimentelles zur frage der canalisation mit berieselung. Friedrich Falk.
Berlin, Druck von R. Doll, 1877. 40p.
- Greater Berlin favors disposal of sewage by the direct irrigation system.
G. E. P. Smith. Agricultural engineering. v.9. p.345-346.
November 1928. Great saving in water effected by this method, which
is important factor for consideration to arid southwest; pipe lines;
method of application; practices in America; European practice.
- How Pomona makes money selling sewage effluent for irrigation use. F. C.
Froehde. Western city. v.6. p.39-40, 49, 52. January
1930. Description of sewage-disposal plant and methods of
utilizing effluents and sludge; cost data.

- Improvement of land for sludge disposal purposes. J. R. Brown: Surveyor. v.77. p.221-222. February 7, 1930. Discussion of principles of sewage farming; position of main drains; discharge of drainage water; subsoil treatment; mixing soils; application of lime; crops.
- Irrigating with sewage at Tucson, Arizona. W. C. Lefebvre. Municipal journal. v.44. p.395. May 11, 1918.
- Irrigation with Denver sewage. C. E. Burdick. Public works. v.58. p.90-91. March 1927. Now taken from river, into which it is discharged, through irrigation ditch to irrigate 20,000 acres; no nuisance created; advantages and disadvantages.
- Irrigation with treated sewage in western Texas. H. N. Roberts and D. L. Jones. Engineering news record. v.97. p.1026-1028. December 23, 1926. Effluent from tanks and sprinkling filters of Lubbock pumped to reservoir and used on cotton and other crops.
- Irrigations a l'eau d'egout dans la plaine de Gennevilliers. Rapport sur un projet de declaration d'utilite publique de la canalisation. M. Schloesing. Paris, Imprimerie Chaix, 1892. 47p.
- Landwirtschaftliche abwasserverwertung. G. Schompp. Gesundheitsingenieur. v.58. p.357-360. June 15, 1935. Agricultural sewage utilization.
- Landwirtschaftliche versuche auf den rieselgutern der stadt Berlin im jahre 1904. A. Backhaus. Berlin, P. Parey, 1905. 122p.
- Landwirtschaftliche verwertung von abwassern der Stadt Leipzig. L. Meister and K. Stein. Gesundheitsingenieur. v.58. p.209-213. April 13, 1935. Agricultural utilization of Leipzig sewage by Delitzsch association for sewage utilization; irrigation of 20,000 acres in 1934 with sewage resulted in greatly increased crop yields; pumping and distribution methods described.
- Latrine, Mull und wasen. Bearb. in auftrage der Dunger-abteilung der Deutschen landwirtschafts-gesellsche. M. Hoffmann. Berlin, Deutsche landwirtschafts-gesellschaft, 1910. 59p.
- Methods and aims of agricultural utilization of sewage in central German; abstract. A. Carl. American journal of public health. v.22. p.757-758. July 1932.
- Minutes of information collected on the practical application of sewer water and town manures to agricultural production. Ordered to be printed for the use of local board of health and their surveyors engaged in the administration of the public health act. December 1851. London, Printed by G. E. Eyre and W. Spottiswoode, 1852. 167p.

- Mit welchen pflanzen nutzt man ein rieselfeld für städtisches abwasser in nordlichem klima am vortheilhaftesten aus? H. Stierner.
Landwirtschaftlichen versuchsstationen. v.24. P.362-392.
1880
- Municipal matters in the District of Columbia Washington, D.C.
Government printing office, 1898. 62p. U.S.
55th congress. Senate. Document no. 38
- Neuere abwasser-*ver*regnungsanlagen in Ostpreussen. J. Rothe
Gesundheits ingenieur v.57. p.593-597. November
3, 1934 Description of and operating data on three small sewage
disposal plants in east Prussia where somewhat purified sewage pumped by
electric motors is used for overhead sprinkler irrigation of fields; cost
data showing extreme economy of system; details of sprinklers and layout
of irrigation systems.
- Neues erfolgreiches verfahren der wiresschaftlichen abwasserbeseitigung und
verwertung durch abwasser-*ver*regnung. Gesundheits ingenieur.
v.54. p.20-25 January 10, 1931.
New successful method of sewage disposal and utilization by spray irriga-
tion. System of disposal by which liquid portion of sewage is used for
overhead irrigation of vegetables, resulting in higher yields and income;
cost data.
- New hume concrete pipe line to carry sewage effluent for irrigation.
F. C. Froehde Hydraulic engineering v.4. p.88,
97,104. February 1928 City of Pomona, Calif., sells
effluent from disposal plant for irrigating nearby agricultural lands;
general description of system and use of sewage effluent for irrigation
purposes.
- Not on the effluent farm near Poona (1918-19 to 1925-26) C.C. Inglis.
India. Bombay, 1927 4lp. India. Public Works
department. Technical paper no. 17.
- Observations on sewage in Europe. G. A. Mitchell. Engineering
news record. v.106. p.66-69. January 8, 1931.
- Protection of river and harbor water from municipal wastes. C.E.A. Winslow.
Scientific american supplement. v.72. p.17-20. July 8, 1911.
- Purification and utilisation of sewage, with plans of the Croydon irrigation
fields. Baldwin Latham. London, E. & F.N. Spon, 1867.
40p.
- Rapport sur l'emploi des eaux d'égout de Londres. Charles de Freycinet.
Paris, Dunod, 1867. 88p.
- Rechen- und sandfanganlagen der klaranlage Leipzig-Rosental. H. Rossberg.
Verein Deutscher ingenieure. Zeitschrift. v.80. p.156-157.
February 8, 1936.

- Reclaiming sewage for citrus grove irrigation is feasible. J. E. Rockhold.
California citrograph. v.17. p.274. May 1922.
- Reinigung städtischer abwasser in Deutschland nach den natürlichen biologischen verfahren. J. König und H. Lacour. Landwirtschaftliche jahrbucher. v.47. p.477-572. 1914.
- Report of the Public works committee, presented to the council on the 6th day of June, 1871, on the purification and utilisation of the sewage of the borough. Birmingham, Eng., F. Grew, printer, 1871. 47p.
- Residential sewage-disposal installations; individual sub-soil irrigation plants. W. H. Booker. Engineering magazine. v.44. p.115-118. October 1912.
- Review of operation of Ljublin filters on basis of biological survey for period of 1912 to 1915. F. H. Darsov. Trudi soveshchaniya po Ochistke Stochnikh vod. Bulletin no. 10. 1929. p.5-22.
- Analysis of results of monthly biological surveys of drainage water from 900 acres irrigated by sewage effluent, to determine relation between biological and chemical indications, also effect of nature of soil on efficiency of sewage disposal. In Russian, with abstract in French.
- Rieselfeldanlage der stadt Dulmen. Eine genossenschaftliche abwasserverwertung. Adolf Kreutz. Landwirtschaftliche jahrbucher. v.52. p.741-768. 1919.
- Rieselfelder der stadt Freiburg i.B. Chemische und bakteriologische untersuchungen der kanalglussigkeit und der drainwasser. Otto Korn. Munchen, Druck von R. Oldenbourg, 1897. 50p.
- Sanitary works and sewage utilization. Two letters reprinted from "The Times". J. Bailey Denton. London, E. & F. N. Spon, 1869. 27p.
- Settling tanks lighten burden on Tucson sewage farm. F. H. Yeatch. Engineering news record. v.101. p.763-770. November 22, 1923.
- Sewage disposal. Ten years' (now fourteen years) in works of intermittent downward filtration, separately and in combination with surface irrigation; with notes on the practice and results of sewage farming. J. Bailey-Denton. London, E. & F. N. Spon, 1885. 105p.
- Sewage disposal at Berlin. W. Rudolfs. Public works. v.61. p.26-27. June 1930.
- Sewage disposal at Denver. C. P. Durdick. Water works. v.66. p.101-102. March 1927.

- Sewage farm displaces filter beds at Vineland, N. J. G. A. Mitchell.
Engineering news record. v.104. p.65. January 9, 1930.
Owing to complaints about beds by near-by residents, borough of Vineland
(population 3,000) contracted with farmer to dispose of effluent on
borough-owned land for period of five years, with salary for first two
years only; satisfactory results of sewage irrigation of cabbage,
asparagus, etc.; details of sewage diverters.
- Sewage farm in far-off Australia. H. E. Dabbitt. American city.
v.42. p.149-150. June 1930. Operation of sewage
farm by Melbourne, Australia; cost of sewage treatment and revenue
obtained.
- Sewage farms of Berlin. Robert C. Brooks. Boston, Ginn & co., 1905.
293-313p.
- Sewage irrigation. D. T. Mauldin. Texas water works short school.
Proceedings, 1933. Temple, Texas, 1933. p.33-35.
- Sewage irrigation. Frederick Haynes Newell. In his Irrigation in
the United States. 1902. p.275-281.
- Sewage irrigation. George W. Rafter. Washington, D. C., Govern-
ment printing office, 1897-99. U. S. Geological survey. Water
supply and irrigation paper nos, 3, 22.
- Sewage irrigation in Texas. E. H. Goodwin. Public works. v.66.
p.23-24. March 1935.
- Sewage problem popularly stated; the battle of the microbes. C. P. Collins.
Scientific american supplement. v.67. p.126-127.
February 20, 1909.
- Sewerage system of San Antonio. G. W. Jones. Arena. v.40.
p.155-156. September 1908.
- Sludge disposal at a sewage irrigation farm, Vineland, N. J. G. A. Mitchell.
Engineering news record. v.107. p.57. July 9, 1931.
- Spuljauchenrieselanlagen Berlins. V. Schweder. Landwirtschaftliche
jahrbucher. v.7. p.154-170. 1878.
- Spuljauchenrieselung bei Paris. Alexander Muller. Landwirtschaftlichen
versuchsstationen. v.23. p.13-47, 161-172. 1879. v.25.
p.177-193. 1880.
- Studien uber die spuljauchen-rieselanlagen in England unter besonderer beruck-
sichtigung der technischen einrichtungen und der erfolge des pflanzen-
wuchses und der reinigung der spuljauche. V. Schweder,
Landwirtschaftliche jahrbucher. v.7. p.103-153. 1878.

- Studies of outlets and crops on sewage irrigated areas. George A. Mitchell. Engineering news record. v.92. p.284-287. February 14, 1924. Terra-cotta pipe lines used and several designs of concrete and concrete-protected cast-iron outlets tried; comparative yields of irrigated and non-irrigated land.
- Suggestions on town sewage and its application to land by gravitation. Lucius H. Spooner. London, R. Hardwicke, 1865. 30p.
- Über abfuhr in groningen, Lunden und Bremen. H. A. M. Fleischer. Landwirtschaftlichen versuchsstationen. v.26. p.325-338. 1881.
- Ueber den einfluss starker spuljauchen-rieselung auf den boden. Alexander Muller. Landwirtschaftlichen versuchsstationen. v.25. p.411-427. 1880.
- Ueber unterbringung und verwerthung der städtischen abfalle. Alexander Muller. Landwirtschaftlichen versuchsstationen. v.26. p.365-374. 1881.
- Utilization of sewage. Henry J. Barnes. Boston, Wright and Potter printing co., 1885. 25p.
- Verrechnung haeuslicher und gewerblicher abwaesser. G. Schonnopp. Gesundheits-ingenieur. v.53. p.191-192. April 6, 1935. Notes on irrigation with domestic and industrial sewage using sprinkling equipment.
- Verwertung haeuslicher und gewerblicher abwasser durch verrieselung. Kreuz. Gesundheits ingenieur. v.56. p.190-191. April 6, 1935. Utilization of domestic and industrial sewage for irrigation.
- Verwertung staedttischer abwaesser zur Zwecke der Landeskultur. F. Langbein. Gesundheits-ingenieur. v.53. p.321-330. May 24, 1930. Utilization of city sewage for agricultural purposes. Director of Berlin municipal sewage system reviews various methods of sewage farming and sewage treatment; experimental work and practices of Berlin sewer department; development of methods for utilization of sewage for crop raising; construction of large-scale sewage farm for Berlin, having capacity of 120,000 to 180,000 cu.m. of sewage per day; use of activated-sludge methods; suggestions for further research.
- Water scarce? Follow Pomona's lead and use sewage effluent for irrigation. F. C. Froehde. American city. v.45. p.81-82. October 1931. Operation of activated-sludge plant of Pomona, Calif.; treatment gives clear effluent which is of better quality than much of irrigation water used in district; fertilizing value of effluent; effluent from plant amounts to 1,000,000 gal. per day; net cost of treatment \$15.04 per million gal.

Wege und ziele der landwirtschaftlichen abwasserwertung in mitteldeutschland. A. Carl. Gesundheitsingenieur. v.54. p.765-769. December 26, 1931. Methods and aims of agricultural utilization of sewage in central Germany for irrigation and fertilization; specific problems of engineering, organization and hygiene; estimate of costs.

Weitere mittheilungen über die zusammensetzung des hanges von spulzeucherieselwiesen. Paul Ehrenberg. Landwirtschaftlichen versuchstationen. v.71. p.263-266. 1909.

Wie kann die dungerproduktion grosserer städte an vortheilhaftesten der landwirtschaft nutzbat gemacht werden. J. A. W. Wicke. Journal für landwirtschaft. v.7. p.1-23. 1859.

Works of Lyublin sewage filtration fields from June 1914 to May 1923. K. M. Korolkov. Trudi Soveshchaniya po Ochistke Stochmish vod. Bulletin no.10. 1926. p.23-115. Summary of chemical examinations and analysis; conclusions on chemical mechanism of sewage purification by broad irrigation; irrigated area exceeded 700 acres. In Russian, with abstract in French.

Works of the Birmingham Tame and Lea district drainage board and method of sewage treatment. John Duncan Watson. Birmingham, Eng., P. Jones, Limited, 1912. 96p.

Underground.

Comparaison de l'irrigation superficielle et de l'irrigation couterraine dans le Sud-Algerien. G. Chevalier. Academie d'agriculture de France. Comptes rendus. v.21. p.682-686. May 15, 1935.

Cypress lath sub-irrigation system. B. C. Hooring. Oklahoma. Agricultural and mechanical college. Extension division. Circular no. 158. Stillwater, Okla., 1922. 4p.

Deep irrigation proves profitable. F. G. Deyschlag. California cultivator. v.33. p.269. April 11, 1936.

Garden sub-irrigation with concrete tile. H. R. Dentley and J. F. Rosborough. Texas. Agricultural and mechanical college. Extension service. Miscellaneous series no.130. College Station, Texas, 1932. 3p.

Inexpensive cypress lath sub-irrigation plan. Oklahoma. Agricultural and mechanical college. Extension division. Circular no.72. Stillwater, Okla., 1918. 4p.

- Irrigation by means of underground porous pipe. E. D. House. Colorado. Agricultural experiment station. Bulletin no.240. Fort Collins, Colo., 1918. 15p.
- Irrigation souterraine automatique des sols. E. Roux; D. Korneff. Academie d'agriculture de France. Comptes rendus. 4.14. p.1049-1052. November 7, 1928.
- Irrigationa souterraines, G. Manrin. Journal d'agriculture pratique. v.48. p.512-513. December 24, 1927.
- Nouvelles recherches sur l'irrigation souterraine. J. Dordas. International congress of soil science. Transactions, 3d. v.1. 1935. p.401-403.
- Recherches sur la force de succion des sols et l'irrigation souterraine. J. Dordas and G. Mathieu. Annales des sciences agronomique. v.47. p.192-235. March 1930.
- Riego subterraneo. A. P. Spencer. Hacienda. v.21. p.24-26. January 1926.
- Subirrigation. A. P. Spencer and C. M. Derry. Florida. University. Agricultural extension division. Bulletin no.5. Tallahassee, Fla., 1916. 12p.
- Subirrigation for gardens. M. R. Bentley and J. F. Rosborough. Texas. Agricultural and mechanical college. Extension service. Circular no.97. College Station, Tex., 1935. 8p.
- Sub-irrigation for gardens. E. E. Isaac. Montana. College of agriculture and mechanic arts. Extension service. Circular no.63. Bozeman, Mont., 1934. 12p.
- Subirrigation in the greenhouse. W. J. Green and E. C. Green. Ohio. Agricultural experiment station. Bulletin no.61. Wooster, Ohio, 1895. 57-76p.
- Subirrigation in the greenhouse. F. W. Rane. West Virginia. Agricultural experiment station. Bulletin no.33. Morgantown, W. Va., 1893. 255-270p.
- Subirrigation is profitable. W. Covey. Country gentleman. v.82. p.1117. July 7, 1917.
- Subirrigation method of supplying nutrient solutions to plants growing under commercial and experimental conditions. Robert B. Withrow and J. P. Diebel. Journal of agricultural research. v.53. p.693-701. November 1, 1936.

- Subirrigation problem solved. D. J. Whitney. Pacific rural press.
v.103. p.250. March 4, 1922.
- Subirrigations for gardens. M. R. Bentley and J. F. Rosborough. Texas.
Agricultural and mechanical college. Extension service. Bulletin
no.92. College Station, Tex., 1936. 14p.
- Subsoiling and deep irrigation. California cultivator. v.59.
p.355. October 7, 1922.
- Subsurface water for irrigation. C. H. Williams. Engineering magazine.
v.42. p.416-419. December 1911.
- Subterranean irrigation: recent progress. International review of agri-
culture. v.20. p.1-7. January 1929.
- Ueber die wasserung der gartengewachse aus den untergrund. Alexander
Muller. Landwirtschaftlichen versuchsstationen. v.11. p.168-
176. 1869.
- Underground irrigation, Sernagiotto system; abstract. International
review of agriculture. v.18. p.724-725. July 1927.
- Wilson seep system of subirrigation. Reliable seep system, adaptable to
large or small areas at moderate cost. Originated and patented
August 19, 1913. James A. Wilson. Arkansas City, Kan., 1913.
15p.

PROJECTS.

- Agricultural investigations on the Newlands (Nev.) reclamation project,
1912-1932. U. S. Bureau of plant industry. Washington, D. C.,
Government printing office, 1913-1935.
- Agricultural observations on the Truckee-Carson irrigation project. F. B.
Headley and Vincent Fulkerson. U. S. Department of agriculture.
Bureau of plant industry. Circular no.78. Washington, D. C., 1911.
20p.
- Aided and directed settlement on government irrigation projects. Hearings...
House Committee on irrigation and reclamation. February 16, 1928.
Washington, D. C., Government printing office, 1928. 82p.
- Aided and directed settlement on proposed government irrigation projects.
Hearings before the Committee on irrigation and reclamation, House of
representatives, 68th congress, 2d session, on H. R. 11171 and H. R.
12083. Bills to provide for aided and directed settlement on government
land irrigation projects. January 28, February 6, 9, and 18, 1925.
Washington, D. C., Government printing office, 1925. 112p.

Aided and directed settlement on proposed projects. Information presented to the Committee on irrigation and reclamation, House of representatives, Sixty-eighth congress, second session in connection with H. R. 11171 - 12083, by Mr. Winter. Washington, D. C., Government printing office, 1925. 243p.

Annual report of the Elephant Butte district, Rio Grande irrigation project. 1922 - date. n.p.; 1923 - date.

Australia's largest irrigation project. Excavating engineer. v.15. p.113-117. April 1921. Description of Murrumbidgee irrigation scheme of Water conservation and irrigation commission of New South Wales. Work under way on contract no. 64 consisting of 54 miles of canal enlargement with total excavation of 3,685,000 cu.yd. Detailed account of dragline operation.

Central valley project important. E. Hyatt. Civil engineering. v.4. p.482-486. September 1934. v.5. p.31-32. January 1935. Outline of project, to cost \$170,000,000 for irrigation of Sacramento and San Joaquin valleys, provision of flood protection and year-round navigation on Sacramento and San Joaquin rivers, and stopping of salt-water encroachment on lower part of valleys, involving construction of Kennett dam at Redding, 420 ft. high, and of Friant dam, east of Fresno, 250 ft. high; hydro-electric power will also be produced.

Central valley project of California. Hearings before the Committee on flood control, House of representatives, 74th congress, 1st session, Central valley project of state water plan of California. February 7, 8, and 9, 1935. Washington, D. C., Government printing office, 1935. 107p.

Columbia basin irrigation project. A report by Columbia basin survey commission, state of Washington, 1920.... Olympia, F. M. Lamborn, public printer, 1920. 185p.

Columbia basin irrigation project, state of Washington, a report by George W. Goethals and company, inc. to the Department of conservation and development, state of Washington Olympia, F. M. Lamborn, public printer, 1922. 56p.

Columbia basin project. Hearings before the Committee on irrigation and reclamation, House of representatives, 70th congress, 1st session, on H. R. 7029 by Mr. Summers, a bill for the adoption of the Columbia basin reclamation project and for other purposes. January 16 and 17, 1928. Washington, D. C., Government printing office, 1928. 187p.

Columbia basin project. Hearings before the Committee on irrigation and reclamation, House of representatives, 72d congress, 1st session on the bill H. R. 7446, to provide for the construction, operation and maintenance of the Columbia basin project in Washington, and for other purposes. May 25, 27, June 1, 2, 3, and 13, 1932. Washington, D. C., Government printing office, 1932. 263p.

- Columbia basin project; soil and economic conditions. Report by B. L. Hayden, reclamation economist, Bureau of reclamation, and Prof. George Severance... Washington, D. C., Government printing office, 1928. 106p.
- Columbia basin project, Washington. Hearings before the Committee on irrigation and reclamation, U. S. Senate, 72d congress, 1st session, on S. 2860, a bill to provide for the construction, operation and maintenance of the Columbia basin project in Washington, and for other purposes. June 21, 1932. Washington, D. C., Government printing office, 1932. 34p.
- Columbia basin reclamation project. Hearings before the Committee on irrigation and reclamation, U. S. Senate, 70th congress, 1st session, on S. 1462, a bill for the adoption of the Columbia basin reclamation project, and for other purposes. January 11 and 13, 1928. Washington, D. C., Government printing office, 1928. 167p.
- Columbia basin reclamation project ... Report (to accompany H. R. 7029)... Washington, D. C., U. S. Government printing office, 1928. 7p.
U. S. 70th congress. 1st session. House. Report no. 372.
- Completion report and schedules, Upper Swat canal, 1919. India, North-west frontier province. Public works department. Irrigation branch. Lahore, 1920. 192p.
- Control of flood waters on the American side of the Rio Grande in the state of Texas. Hearings before the Committee on flood control, House of representatives, 74th congress, 1st session on H. R. 6091, a bill to control destructive flood waters on the American side of the Rio Grande in the state of Texas, to aid and improve agriculture and industrial development within said river basin, and for other purposes. February 25, 1935. Washington, D. C., U. S. Government printing office, 1935. 32p.
- Convention between the U. S. and Mexico. Equitable distribution of the waters of the Rio Grande. Signed at Washington, May 21, 1906. Washington, D. C., Government printing office, 1919. 7p.
- Correspondence respecting the Gezira irrigation project. London, Printed and published by H. M. Stationery office, 1924. 57p.
- Development of irrigation projects. Hearings before the House committee on irrigation and reclamation on development of irrigation projects and deferring of payments of reclamation charges. March 11, 21, 1924. Washington, D. C., Government printing office, 1924. 2v.
- Economic limits of cost of water for irrigation Rio Grande project, New Mexico. R. P. Teele ... and Paul A. Ewing ... A preliminary report. Washington, D. C., U. S. Department of agriculture, 1926. 20p. mimeographed.

- Economic limits of cost of water for irrigation; Rio Grande project, Texas. R. P. Teele and Paul A. Ewing. A preliminary report ... Washington, D. C., U. S. Department of agriculture, 1925. 21p. mimeographed.
- Economic survey and conference, Elephant Butte irrigation district, February 1927. Outline reports and summary of recommendations. Conference held at State College, New Mexico, February 15-16, 1927, El Paso, Texas, February 18-19, 1927. New Mexico. College of agriculture and mechanic arts. Extension service. State College, N. M., 1927. 44lp. mimeographed.
- Recommendations, February 15, 1928. State College, N. M., 1928.
- Economic survey of agriculture of the Minidoka area, and recommendations adopted at the economic conference held February 22 to 24, 1927, at Burley, Idaho. J. W. Barley and John T. Montgomery. Moscow, Idaho, Idaho university, College of agriculture, Extension department, 1927. 55p. mimeographed.
- Economic survey of certain federal and private irrigation projects. Hearings before the House committee on irrigation and reclamation. Washington, D. C., Government printing office, 1930. 314p.
- Engineering work for large British irrigation project; method of making surveys and designs for Murrumbidgee scheme. J. M. S. Woore. Engineering and contracting. v.60. p.91-96. July 11, 1923.
- Equitable use of the waters of the lower Colorado river and the Rio Grande. Communication from the President of the United States transmitting, in response to Senate resolution no.181, a report by the secretary of state submitting certain information regarding the equitable use of the waters of the lower Colorado river and the Rio Grande ... U. S. Department of state. Washington, D. C., U. S. Government printing office, 1928. 9p. U. S. 70th congress. Senate. Document no. 163.
- Equitable use of the waters of the Rio Grande below Fort Quitman, Tex. Hearings before the Committee on foreign affairs, House of representatives, 68th congress, 1st session, on H. R. 837, a bill providing for a study regarding the equitable use of the waters of the Rio Grande below Fort Quitman, Tex., in cooperation with the United States of Mexico. April 17, 1924. Statement of Mr. C. H. Pease. Washington, D. C., Government printing office, 1924. 45p.
- Extending time of construction payments Rio Grande federal irrigation project, Hearing before the Committee on irrigation and reclamation, United States senate, Seventieth congress, first session, on S.4167, a bill extending the time of construction payments on the Rio Grande federal irrigation project, New Mexico - Texas. April 26, 1928 ... Washington, D. C., U. S. Government printing office, 1928. 44p.

- Federal irrigation projects. U. S. Bureau of reclamation. Washington, D. C., U. S. Government printing office, 1930. 83p.
- Flood waters of the Rio Grande. Hearings before the Committee on irrigation, U. S. Senate, on S. J. Res. 183, a joint resolution for control and distribution of the flood waters of the Rio Grande. Washington, D. C., Government printing office, 1915. 41p.
- Funcion del estado en la transformacion de secano en regadio. L. R. Ruiz-Zorrilla. Madrid, 1934. 72p.
- Gezira canal. Statistics of water consumption, 1929/30 - 1930/31. Sudan. Irrigation department. Khartown, 1930-1931.
- Government aid on irrigation projects. Hearings ... Senate committee on irrigation and reclamation. Washington, D. C., Government printing office, 1925. 130p.
- Hearings upon the bill H. R. 17939, Committee on foreign affairs, House of representatives ... January 24, 1905. Washington, D. C., Government printing office, 1905. 12p.
- High-pressure reservoir outlets; a report on Bureau of reclamation installations. J. M. Gaylord and J. L. Savage. Washington, D. C., Government printing office, 1923. 179p.
- Home-making by the government. C. J. Blanchard. National geographic magazine. v.19. p.250-288. April 1908. An account of the eleven immense irrigation projects to be opened in 1908.
- Information concerning the Orland irrigation project, California. Elwood Mead, commissioner, Bureau of reclamation. Washington, D. C., U. S. Government printing office, 1932. 12p.
- Information concerning the Owyhee irrigation project, Oregon-Idaho. Elwood Mead, commissioner, Bureau of reclamation. Washington, D. C., U. S. Government printing office, 1928. 14p.
- Information concerning the Vale irrigation project, Oregon. Elwood Mead, commissioner, Bureau of reclamation. Washington, D. C., U. S. Government printing office, 1928. 13p.
- International aspects of the Rio Grande project, Texas and New Mexico. H. H. Brooks. Las Cruces, N. M., 1923. 129p.
- Inventory of Montana irrigation projects. R. B. Tootell. Montana. College of agriculture and mechanic arts. Extension service. Bulletin no.124. Bozeman, Mont., 1932. 104p.

Irrigation projects. Hearings before the Committee on irrigation of arid lands, House of representatives. February 24, 1912.
Washington, D. C., Government printing office, 1913. 26p.

Mexico - Equitable distribution of the waters of the Rio Grande. Convention between the U. S. and Mexico providing for the equitable distribution of the waters of the Rio Grande for irrigation purposes.
Washington, D. C., Government printing office, 1907. 5p.

Middle Rio Grande conservancy district. Hearing before Senate committee on Indian affairs, 70th congress, 1st session, on S. 700. A bill authorizing the Secretary of the interior to execute an agreement with the Middle Rio Grande conservancy district providing for conservation, irrigation, drainage and flood control for the Pueblo indian lands in the Rio Grande valley, N. Mex. January 20, February 17, 1928.
Washington, D. C., U. S. Government printing office, 1928. 2v.

Notes on the Gezira irrigation project. January 1926. London, 1926. 52p.

Opportunities for farm ownership. Orland irrigation project, California. U. S. Department of the interior. Hubert Work, secretary, Bureau of reclamation. Elwood Mead, commissioner. Washington, D. C., U. S. Government printing office, 1927. 19p.

Opportunities for farm ownership on the Riverton irrigation project, Wyoming. Elwood Mead, commissioner, Bureau of reclamation. Washington, D. C., U. S. Government printing office, 1933. 10p.

Orchard irrigation studies in the Rogue river valley. C. I. Lewis, E. J. Kraus, R. W. Rees. Oregon. Agricultural experiment station. Bulletin no. 113. Corvallis, Ore.; 1912. 47p.

Orland reclamation project. Hearing before the Committee on irrigation and reclamation, House of representatives, 74th congress, 2d session, on H. R. 11538, H. R. 11586. March 5, 1936. Washington, D. C., U. S. Government printing office, 1936. 20p.

Payette-Boise irrigation project, Idaho. Information compiled by United States reclamation service, January 1, 1910. n.p., 1910. 32p.

Pima indians and the San Carlos irrigation project. Hearings ... U. S. Congress. House. Committee on indian affairs. Washington, D. C., Government printing office, 1924. 40p.

Private irrigation project as an investment. Thomas Berry. Engineering news. v. 70. p. 854-856. October 30, 1913.
Discusses the essentials to success and the causes of failure of irrigation projects.

- Procedimientos y puntos de vital importancia en el estudio de un proyecto de irrigación. A. Weiss. Irrigacion en Mexico, v.8. p.75-109. February 1934. Procedure and importance points in study of irrigation projects; reconnaissance, preliminary, and final maps; quality of soils; topography and irrigating methods; existing and potential markets; roads; construction materials; reconnaissance of available lands and storage basins; excess drainage; geological examination of reservoir and outlets; silting of reservoir; location of canals.
- Proceedings of the International (water) boundary commission, United States and Mexico, treaties of 1884 and 1889. Equitable distribution of the waters of the Rio Grande. United States section. Washington, D. C., Government printing office, 1903. 2y.
- Proposed development and use of Elephant Butte hydro-electric power. Elephant Butte irrigation district. n.p., 1928. 40p.
- Reclamation and irrigation bills. Hearings before the Committee on irrigation and reclamation, House of representatives, 75th congress, 1st session, on H. R. 1499, a bill to create a commission and to extend further relief to water users on United States reclamation projects and on Indian irrigation projects; and H. J. Res. 150, joint resolution to permit a compact or agreement between the states of Idaho and Wyoming respecting the disposition and apportionment of the waters of the Snake river and its tributaries. Washington, D. C., U. S. Government printing office, 1937. 23p.
- Reclamation and irrigation bills. Hearings before the Committee on irrigation and reclamation, House of representatives, 75th congress, 1st session, on H. R. 6319, a bill to prevent speculation in lands in the Columbia basin prospectively irrigable by record of the construction of the Grand Coulee dam project and to aid actual settlers in securing such lands at the fair appraised value thereof as arid land ... H. R. 2512 (S.47), a bill to authorize an appropriation for the construction of small reservoirs under the federal reclamation laws; H. R. 2511 (S.48, Report no.173), a bill to authorize an appropriation for investigations under the federal reclamation laws; S.534 (Report no. 42), an act granting the consent of Congress to the states of Montana and Wyoming to negotiate and enter into a compact or agreement for division of the waters of the Yellowstone river ... Washington, D. C., U. S. Government printing office, 1937. 26p.
- Reclamation and irrigation bills. Hearings before the Committee on irrigation and reclamation, House of representatives, 75th congress, 1st session, on H. R. 114, H. R. 2511, S.534 (Report no.42.) Washington, D. C., U. S. Government printing office, 1937. 25p.
- Report of an economic survey of certain federal and private irrigation projects, 1929. U. S. Bureau of reclamation. Washington, D. C., U. S. Government printing office, 1930. 84p.

Report of the American section of the International water commission, United States and Mexico. Message from the President of the United States transmitting report submitted by the American section of the International water commission, United States and Mexico ... Washington, D. C., U. S. Government printing office, 1930. 492p.
U. S. 71st congress. House. Document no. 359.

Report of the chief, 1890-1895. U. S. Department of agriculture. Office of irrigation inquiry. Washington, D. C., Government printing office, 1891-95. 5 nos.

Report on lower Rio Grande project. Prepared by U. S. Reclamation service. McAllen, Tex., Lower Rio Grande valley water users' association, 192-74p. mimeographed.

Report on Soda lakes investigation, Truckee-Carson project, near Fallon, Nev., Charles H. Lee ... and W. O. Clark ... Washington, D. C., Government printing office, 1916. 657-706p.

Report on the irrigation ~~works~~ of the Rio Grande dam and irrigation company, in the Rio Grande valley, from Engle, New Mexico, to Fort Quitman, Texas. J. L. Campbell. El Paso, Tex., 1894. 65p.

Rio Grande canalization project. Hearings before the Committee on foreign affairs, House of representatives, Seventy-fourth congress, second session, on H.R. 9998 and H.R. 11768 (both same title) ... March 10 and 13, 1936. Washington, D. C., U. S. Government printing office, 1936. 46p.

Rio Grande canalization project ... Report (to accompany H.R. 11768) Washington, D. C., U. S. Government printing office, 1936. 6p.
U. S. 74th congress, 2d session. House. Report no. 2239.

Rio Grande federal reclamation project, New Mexico-Texas. U. S. Bureau of reclamation. Washington, D. C., U. S. Government printing office, 1936. 16p.

Rio Grande irrigation project; hearings before the House committee on irrigation of arid lands, 67th congress, 4th session on H.R. 13550, by Mr. Hudspeth; a bill authorizing the Secretary of the interior to enter into a contract with the Elephant Butte irrigation district of New Mexico, and the El Paso county improvement district no. 1, of Texas, for the carrying out of the provisions of the convention between the U. S. and Mexico, proclaimed January 16, 1907, and providing for compensation therefor. Washington, D. C., Government printing office, 1923. 58p.

Rio Grande irrigation project, New Mexico. Information compiled by United States reclamation service, November 15, 1909. n.p., 1909. 35p.

Rogue river valley project and Willamette valley investigations, irrigation and drainage. John T. Whistler, engineer, U. S. Reclamation service, John H. Lewis, state engineer for Oregon. February 1916. Denver, Smith-D Brooks press, 1916. 111p.

- Sacramento, San Joaquin and Kern rivers, Calif. Hearings before the Committee on rivers and harbors, House of representatives, 73d congress, 2d session, on the subject of the improvement of the Sacramento, San Joaquin and Kern rivers, Calif. April 13, 1934. Washington, D. C., U. S. Government printing office, 1934. 8p.
- San Carlos irrigation project, Arizona. Report to the secretary of war of a Board of engineer officers, United States army, under Indian appropriation act of August 24, 1912, on the San Carlos irrigation project, Arizona. U. S. Engineer department. Washington, D. C., Government printing office, 1914. 168p. U. S. 63d congress. House. Document no.791.
- Subsoil waters of Newlands (Nev.) field station. Carl S. Scofield and others. U. S. Department of agriculture. Technical bulletin no.533. Washington, D. C., 1936. 31p.
- Success on irrigation projects. John A. Widtsoe. New York, J. Wiley & sons, inc., 1928. 153p.
- Temporary relief for water users on irrigation projects constructed and operated under the reclamation law. Hearings ... House committee on rules ... on H. Res. 152 and H. Res. 9489. February 23, 1932. Washington, D. C., Government printing office, 1932. 28p.
- Truckee-Carson experiment farm. Carl S. Scofield and Shober J. Rogers. U. S. Department of agriculture. Bureau of plant industry. Bulletin no.157. Washington, D. C., 1909. 38p.
- Truckee-Carson irrigation project. U. S. Reclamation service. Washington, D. C., 1909. 28p.
- Truckee-Carson-Lake Tahoe project. Letter from the secretary of agriculture, transmitting, in response to House resolution no.270, information relating to Truckee-Carson-Lake Tahoe project ... Washington, D. C., Government printing office, 1912. 160p. U. S. 62d congress. House. Document no.451.
- Use of water on federal irrigation projects. E. B. Debler. American society of civil engineers. Transactions. v.94. p.1195-1241. 1930.
- Waters of the Rio Grande and its tributaries. Letter from the Secretary of the interior, transmitting by direction of the President, orders and regulations of the Interior department touching use, appropriation, or disposition for irrigation of the waters of the Rio Grande and its tributaries in Colorado and New Mexico ... Washington, D. C., Government printing office, 1911. 197p. U. S. 62d congress. House. Document no.39.

Yuma irrigation project, Arizona-California. Washington, D. C., 1909.
40p.

PUMPS

Aegyptische bewässeranlagen. E. F. Huber. Zeitschrift des Vereines
Deutscher ingenieure. v.52. p. 42-53.
January 11, 1908. Irrigation plants in Egypt. Illustrates and
describes several large pumping plants installed by Sulzer brothers.

Agricultural development in southwestern Arizona; Pumping water for
irrigation. F. A. Gulley and C. B. Collingwood. Arizona.
Agricultural experiment station. Bulletin no.11. Tucson, Ariz.,
1893. 17-24p.

Agriculture, electricity and irrigation: electrically driven pump.
P. A. Bates. Scientific american. v.108. p.472.
May 24, 1913.

Air lift irrigation system in Florida. Irrigation age. v.33.
p.43-44. April 1918.

Application of hydroelectric energy to irrigation pumping in Southern
Idaho. E. A. Wilcox. Electrical world. v.60.
p.705-710. October 5, 1912. Illustrated descriptions of
various installations, with data on water requirements and consider-
ations governing rates of service.

Automatic control features irrigation pumping system. Electrical
west. v.69. p.198-199. November 1932.

Automatic current motor. Engineer. v.130. p.308.
September 24, 1920. Device for utilizing force of stream for
lifting water from it primarily for irrigation purposes, patented
by F. L. Gilman of Los Angeles, Cal.

Central station supplies energy for irrigation in land development.
Electrical review. v.71. p.603-604. October 6, 1917.

Centrifugal pumps. E. F. Doty. Engineer. v.45. p.266-267.
March 2, 1908. Describes pumps adapted for irrigation, mine
service and hydraulic dredging.

Centrifugal pumps for irrigation. C. F. Braun. Western engineering.
v.3. p.124-138. August 1913.
Describes features which make the centrifugal pump a highly efficient
and very reliable unit.

Community pumps for irrigation. J. T. Bartlett. Scientific American.
v.122. p.472. April 24, 1920.

- Construction of the Thomas point pumping plant. . . . Reclamation record.
v.14. . . . p.324. . . . November, December 1923. . . . Deals
with pumping plant situated on main canal of Lower Yellowstone
irrigation project, in Montana and North Dakota, providing means
for irrigation approximately 2400 acres land; built to pump water
from main canal into lateral LL, difference in water surface being
31ft.
- Cost of pumping and duty of water for rice on the Grand Prairie of
Arkansas. B. S. Clayton. Arkansas. Agricultural experiment
station. Bulletin no.261. Fayetteville, Ark., 1931. 48p.
- Cost of pumping for irrigation. O. L. Waller. Washington. State
college. Department of extension. Bulletin no.103. Pullman,
W ash., 1923. 23p.
- Cost of pumping from wells for the irrigation of rice in Louisiana and
Arkansas. W. B. Gregory. U. S. Department of agriculture.
Office of experiment stations. Bulletin no.201. Washington,
D. C., 1908. 39p.
- Cost of pumping plant and of pumping water for irrigation, Minidoka
project, U. S. Reclamation service. Engineering and contracting.
v.37. . . . p.106-107. . . . January 24, 1912.
- Crude oil installation for irrigation pumping. Commonwealth engineer.
v.16. . . . p.236-237. . . . January 1929. Simplicity
in operation and lower operating and maintenance costs were among
reasons influencing South Australian irrigation commission in
selecting Worthington crude-oil engines of two-cycle solid injection,
cold-starting type, for Wailerie pumping station on Murray river.
- Current wheels; their use in lifting water for irrigation. U. S.
Department of agriculture. Office of experiment stations. Bulletin
no.146. Washington, D. C., 1904. 38p.
- Current wheels; their use in lifting water for irrigation. Scientific
american supplement. v.58. . . . p.24184-24186, 24200-24202, 24216-
24217, 24224-24225. . . . December 3 - 24, 1904.
- Deep wells and pumps for drainage and supplemental irrigation. E. H.
Neal. Agricultural engineering. v.11. p.333-334. October 1930.
Pumping from underground for effecting drainage and making pumped
water available for irrigation use, demonstrated by experience in Calif-
ornia, Arizona, etc.; installation of deep-well pumps studied by
Department of agricultural engineering of University of Idaho in co-
operation with Idaho committee on relation of electricity to agriculture;
cost of drainage.

- Developing water wells with portable power. F. M. Dunn. Electric Journal. v.31. p.60-61. February 1934. Self-contained portable power plant used to develop and test wells or pump large quantities of water in drainage work; 8 cyl, 250-hp gasoline engine connected directly to 187-kva a-c generator; economy of this unit has proved satisfactory of Department of water & power, Los Angeles, Calif.
- Development of axial flow pump. H. Crombia. Canadian engineer. v.68. p.12-14. March 19, 1935. Description of Canadian improved propeller pump for low-lift duty and for large capacities; high efficiency under low head used for drainage and irrigation works and raw water supply in filtration plants.
- Development of water supplies for irrigation in Nevada by pumping from underground sources. F. L. Dixby and G. Hardman. Nevada. Agricultural experiment station. Bulletin no.112. Reno, Nev., 1928. 38p.
- Diagram for determining the area that can be irrigated under a given combination of lifts by a given power. E. A. Moritz. Engineering news. v.66. p.556-557. November 9, 1911. Diagrams with description and illustration of its use.
- Diesel-engine-driven centrifugal pumps irrigated 50,000 acres in India. J. A. Colaco. Engineering news. v.90. p.702. April 19, 1923.
- Discussion on hydroelectric power as applied to irrigation, San Francisco, Cal., May 6, 1910. American institute of electrical engineers. Transactions. v. 29, pt. 1. p. 731-764. 1910.
- Economic limit of pumping (with special reference to Willamette valley.) W. L. Powers. Oregon. Agricultural experiment station. Bulletin no.235. Corvallis, Ore., 1928. 48p.
- Economical irrigation by pumping. Aurora, Ill., American well works, 1912. 72p. Bulletin no.127.
- Effect of pumping from a shallow well on the ground water table. Walter Wallace Weir. Journal of agricultural research. v.11. p.339-357. November 12, 1917.
- Effect of pumping from deep wells on the ground-water table. W. W. Weir. Journal of agricultural research. v.34. p.663-672. April 1, 1927.

- Efficiency test of a pumping plant used for rice irrigation. W. B. Gregory. Sibley journal of engineering. v.22. p.155-159. February 1908. Describes a test made to determine the efficiency and fuel economy of the pumping plant of the Jennings canal co., about two miles east of Jennings, La.
- Efficiency tests of plantation centrifugal irrigation pumps. W. L. McCabe. Fact about sugar. v.27. p.127-128. March 1932.
- Eleccion e instalacion de las bombas de riego. H. C. Sanchez. Hacienda. v.26. p.452. October 1931.
- Electric energy from coal for irrigation farming in Colorado. C. H. Williams. Electrical world. v.58. p.805-811. September 30, 1911. Illustrated account of the application of electricity to the irrigation and operation of farms in Colorado and Wyoming.
- Electric irrigation pumping in Colorado. E. C. Reybold, jr. Electrical world. v.55. p.863-866. April 7, 1910. Explains its effect on the summer load curve of the Northern Colorado power co.
- Electric irrigation pumping in Kansas. E. C. Reybold, jr. Electrical world. v.55. p.1532-1533. June 9, 1910. Brief illustrated description of a station operating fourteen pumping plants.
- Electric power for irrigation in Colorado. W. H. Bullock. Electric journal. v.9. p.224-232. March 1912. Considers application of the commercial squirrel cage induction motor either belted or direct-connected to a centrifugal pump.
- Electric pumping for irrigation. Alton D. Adams. Electrical world. v.55. p.1709-1711. June 30, 1910. Explains the necessity of pumping water for irrigating many sections and illustrates the three ways that electric pumping is applied.
- Electric pumping in California. Alton D. Adams. Electrical world. v.56. p.206-207. July 28, 1910. Report of the extensive use of the electric system in pumping for irrigation.
- Electric pumping plant for irrigation in Utah. Engineering record. v.62. p.543-544. November 12, 1910. Describes the plant and the favorable conditions for its development.
- Electrical application to irrigation pumping. R. H. Cates. American institute of electrical engineers. Journal. v.43. p.1042-1046. November 1924. v.44. p.418-419. April 1925.

Electrically driven high-lift centrifugal pumps supply water for irrigation.
B. P. Flening. Engineering news record. v.82. p.74-79.
January 9, 1919.

Electrically operated irrigation plant. C. W. Geiger. National
engineer. v.28. p.259-261. June 1924.
Description of irrigation pumping plant of River farms company in
California; capacity 504,000,000 gal. per day; screw pumps designed to
operate very efficiently at low heads and driven by synchronous motors
constitute present equipment.

Electricity in irrigation. Electrical world. v.56. p.150-152.
July 21, 1910. Illustrated description of the electric irrigation
pumping plant of the Mosida fruit lands co., in Utah.

Electricity in irrigation pumping. N. G. Meade. Electrical review.
v.70. p.270-273. February 17, 1917.

Electricity makes rice industry possible. W. E. Camp. Journal of
electricity. v.43. p.102-104. August 1, 1919.
Electrical pumps used in irrigation works.

Elektronmotor als werkzeug friedlicher kolonisation. Dauer. Elektriz-
itaetswirtschaft. v.34. p.238-240. April 15, 1935.
Electric motor as tool in peaceful colonization; author points to
useful work that can be done by systematic drainage of swamps along North
and Baltic seas and discusses design of pumping plant for purpose from
artistic and technical standpoint.

Equipping a small irrigation pumping plant. W. E. Code. Colorado.
Agricultural experiment station. Bulletin no.433. Fort Collins,
Colo., 1936. 55p.

Esperimento con impianto elettrico mobile di irrigazione a scorrimento ed
a pioggia. P. Simoncini. Energia elettrica. v.5. p.1197-
1199. October 1928. Test of a portable electric plant
for irrigation by flooding and by sprinkling. Comparative costs and
power bill for irrigation by flooding and by sprinkling; used 14 hp.
motor set on farm wagon, discharge 60 liters per sec.; comparison is
in favor of overhead irrigation.

Experiences of pump users in California. Pacific rural press. v.99.
p.348. January 28, 1920.

Experiments with windrills. Thomas O. Perry. Washington, D. C.,
Government printing office, 1899. 97p. U. S. Geological
survey. Watersupply and irrigation paper no.20.

- Explosion pump in irrigation service. Power house. v.13.
p.73-75. February 20, 1920. It is stated that direct-
acting explosion pump contains no pistons or other reciprocating
mechanism beyond an oscillating column of water upon which gaseous
products of combustion act.
- Factores en el costo del bombeo de agua de riego. A. B. Terrail.
Hacienda. v.27. p.218-219. June 1932.
- Farm irrigation pumping systems. L. J. Smith and H. L. Garver.
Washington. Agricultural experiment station. Bulletin no.311.
Pullman, Wash., 1935. 24p.
- Farm water supply; the use of the hydraulic ram. F. G. Behrends.
New York. College of agriculture at Cornell university. Extension
service. Bulletin no.145. Ithaca, N. Y., 1926. 28p.
- Field crops for pump irrigation at Harney branch experiment station,
1920 to 1927. Obil Shattuck and R. E. Hutchison. Oregon.
Agricultural experiment station. Bulletin no.236. Corvallis, Ore.,
1928. 30p.
- Garden city expert gives pumping results. Irrigation age. v.31.
p.39. January 1916.
- Hag-Abdalla irrigation pumping station in the Sudan. Sulzer technical
review. no.1. p.12-13. 1927. Consists of
centrifugal pumps driven by Diesel engines; two sets are arranged
symmetrically in engine house which is situated near Nile.
- Helping the farmer with diesel irrigation. Oil engine power. v.7.
p.343-345. June 1929. Applications of Diesel engine to
supplying water for irrigating farms in southern California are
discussed; well was drilled and fitted with turbine pump driven by
Diesel engine; applications to small farm and rice irrigation.
- High-lift centrifugal pumps for irrigation. D. P. Flening. Power.
v.49. p.133-136. January 28, 1919. Water
forced through steel mainfold to reinforced-concrete conduit leading
up to canal; design features; pump tests show over 81 per cent efficiency
under 90 ft. head.
- How low operation costs characterize Diesel pumping units. F. A. Westbrook.
Southern power journal. v.53. p.36-37. February 1935.
Diesel-powered pumping units may prove economical for irrigation service
as is illustrated by installation at Welsh, La. used for irrigating 316
acres of rice land; engine is belted to centrifugal pump that delivers
2100 gpm against 90 ft. head; operation is for 24 hr. per day, and
during irrigation season water must be pumped for total of approximately
100 days and nights.

How natural gas engines pump irrigation water in Texas. M. F. Peters.
Gas age. v.77. p.459-461. May 2, 1936.

Huge venturi meters registering 625 cu.ft. per second, Divi Island
pumping plant, Madras, India. Engineering news. v.62.
p.577-578. November 25, 1909. Illustrated description of plant
for irrigation works in India, with record of pumping with Diesel
engines.

Hydraulic ram. H. Matson. Kentucky. College of agriculture. Ex-
tension division. Circular no.246. Lexington, Ky., 1931. 4p.

Hydroelectric energy for irrigation. Electrical world. v.58.
p.1595-1599. December 30, 1911. Illustrated description
of the Minidoka, Idaho, federal project which utilizes 10,000 h.p.
for electric pumping.

Hydroelectric power as applied to irrigation. John Coffee Hays.
American institute of electric engineers. Proceedings. v.29.
p.547-569. April 1910. Considers some of the operating
conditions encountered in electrically pumping water for irrigation,
describing a typical system.

Improved Persian wheel. S. S. Nehru. Agricultural journal of India.
v.25. p.392-395. September 1930.

Individual pumping systems for farm irrigation. Irrigation age.
v.32. p.107. May 1917.

Instalaciones para la elevacion de agua de irrigacion. W. E. Code.
Hacienda. v.30. p.202-206. June 1935.

Investigations of irrigation pumping plants. H. E. Murdock. Montana.
Agricultural experiment station. Bulletin no. 115. Bozeman,
Mont., 1917. 127-148p.

Irrigacion con agua del subsuelo caso del bombeo electrico. V. M. Arana.
Informaciones y memorias de la Sociedad de ingenieros del Peru. v.31.
p.411-417. June 1929. Irrigation with
groundwater - electric pumping. Torrential flow of Peruvian coastal
rivers during part of summer and in autumn, and drought in spring and
part of summer, requires expensive engineering works to maintain steady
water supply for irrigation throughout year; electric pumping project
is discussed with cost estimates; advantageous with current at six
centavos per kw.-hr.

Irrigacion por bombeo. Juan N. Portocarrero. Informaciones y memorias
de la Sociedad de ingenieros del Peru. v.23. p.196-205.
July 1921. Irrigation by pumps. Discusses irrigation of northern
agricultural zone of Peru by means of this method, including cost.

- Irrigation by pumping. Alfred Chatterton. Madras, Printed by the
superintendent, government press, 1908. 30p.
- Irrigation by pumping in California. R. A. Balzari. Electric journal.
v.11. p.114-119. March 1914. Explains
the advantages of individual pumping plants and describes some of
their applications.
- Irrigation by pumping in western Kansas. F. D. Coburn. Topeka, State
printing office, 1912. 12p.
- Irrigation by pumping individual wells with power from a central gas-
producer gas-engine electric generating station. Robert P. Woods.
Engineering and contracting. v.35. p.195-200.
February 15, 1911. Describes a large irrigation project in New
Mexico, pumping from under-ground sources.
- Irrigation by pumping on the Patterson ranch. G. C. Stevens. Engineering
record. v.62. p.284-286. September 10, 1910.
Brief illustrated description of a water supply taken from the San
Joaquin by pumping.
- Irrigation by pumping with electricity. In Oregon committee on the relation
of electricity to agriculture. Electricity in Oregon agriculture.
Annual report, 1926. 1926. p.7-17.
- Irrigation by pumping, with particular reference to utilizing power from
canal drops. H. J. Kennedy. Engineering and contracting. v.36.
p.607-609. December 6, 1911. Discusses problems and their
solutions.
- Irrigation district served by series of pumping plants. Engineering news.
v.97. p.224-226. August 5, 1926.
- Irrigation pumping. R. H. Cates. California cultivator. v.60.
p.456. April 14, 1923.
- Irrigation pumping. E. C. Reybold, jr. Electrical world. v.55.
p.1064-1066. April 28, 1910. Reports rates charged for
electric service in Colorado.
- Irrigation pumping in southern Idaho. E. A. Wilcox. Electrical review.
v.62. p.179-184. January 25, 1913.
Illustrates and describes several pumping installations, giving
suggestions regarding equipment, maintenance and operation.
- Irrigation pumping in Nevada, a practical field of opportunity for the
reclamation of arid lands within reach of farmer and settler. Under-
ground water supply: the general principles governing surface and
artesian waters, from the standpoint of pumping. Cost of pumping
water: methods of computation and tables of cost per irrigated acre,

- with different kinds of power and at pumping lifts up to 50 feet.
Pumping efficiency and types of pumps: discussion of the several kinds of pumps adapted to low-lift irrigation pumping. Well, pits and reservoir construction: practical information in relation thereto, including cost of drilling artesian wells. Charles A. Norcross. Carson City, Nev., State printing office, 1913. 78p.
Nevada. Bureau of industry, agriculture and irrigation. Bulletin no.8.
- Irrigation pumping in Washington. Eck Baughn. Washington irrigation institute. Proceedings, 1920. 1920. p.48-53.
- Irrigation pumping is basic rural load. Electrical west. v.62. p.579. June 1, 1929. Statistics compiled by this journal at request of U. S. Department of agriculture shows 8.24 per cent of all energy sold is used for lifting water to irrigate farms; electrical energy used for irrigation pumping in 11 western states is specified.
- Irrigation pumping machinery (Gezira scheme), Sudan. R. W. Allen. Engineering. v.117. p.654-656, 685-687. May 16, 23, 1924. Object of scheme is to provide, for purpose of growing cotton, irrigation of northern portion of Gezira plain; construction details of Wad-el-Nau pumping station; drainage arrangements; suction wells and pipes; discharge pipes; labor employed on erection; trials of machinery.
- Irrigation pumping plant with three lifts for the Snow-Moody development co., Payette, Idaho. G. T. Ingersoll. Engineering and contracting. v.38. p.385-389. October 2, 1912. Illustrated detailed description of this irrigation plant and its equipment.
- Irrigation pumping plants. M. R. Kulp. Idaho. Agricultural experiment station. Circular no.66. Moscow, Idaho, 1931. 23p.
- Irrigation pumping stations in upper Egypt. H. C. Von Widdern. Escher wyss news. v.8. p.53-59. March - April 1935. General illustrated description of equipment.
- Irrigation service with Diesel power and a geared centrifugal pump. Oil engine power. v.7. p.460-461. August 1929. At Vantage, Wash., 160 acres of land have been opened to profitable cultivation; pump designed to deliver 1200 g.p.m. at total head of 60 ft. when operating at 1200 r.p.m.; guaranteed efficiency 81 per cent; requires only 22.4 b.h.p.; power unit consists of 36 hp. Washington-Estep two-cylinder Diesel engine with 8 in. bore and 10 in. stroke; speed 450 r.p.m.; four cycle, airless injection type.
- Irrigation works at Sontay (Indochina). Water & water engineering. v.36. p.571-573. October 1934. Description of Diesel power plant operating three single-stage vertical centrifugal pumps, each delivering 35,250 gpm against head of 14 3/4 ft, when running at 158 rpm and absorbing 195 hp. for irrigation of 24,700 acres with water derived from river Rouge.

Irrigazione con sollevamento meccanico. C. Fadini. Industria. v.32.
p.107-110. February 28, 1918. Irrigation in Italy with electric-
ally driven centrifugal pump system.

Irrigazioni localizzate in Sicilia in relazione all'impiego della forza
motrice elettrica. B. Tricomi. Elettrotecnica. v.8.
p.594-598. October 5, 1921. Local irrigation in Sicily in
connection with the use of electric motive power. Describes works
carried out in province of Messina for pumping irrigation water by
electric power.

Is your pump 50 o/o efficient? Pacific rural press. v.127,
p.295. March 31, 1934.

Items in cost of pumping water for irrigation use. Barry Dibble.
Engineering news record. v.91. p.140-141. July 26, 1923.
Vital operating factors necessary to consider in deciding on construction
best adapted for securing water supply.

Large Imperial valley irrigation project uses Diesel driven pumps. W.
Farrand. Hydraulic engineering. v.4. p.668-669. November
1928. Woo Soo syndicate will irrigate over 5000 acres with three
120 hp. Diesel driven units; capacity of 40 sec.-ft. against 14 ft.
total head.

Large rotary pump plant. American machinist. v.29. p.103-104.
January 25, 1906. Brief illustrated description of the Pine island
plant for irrigating a southern rice field; two pumping plants were
installed in order to divide the lift.

Largest motor-driven irrigation pumping plant. Electrical world.
v.63. p.256-258. January 31, 1914. Illustrated des-
cription of the plant of the 30,000 acre Gem irrigation district in
western Idaho.

Lift irrigation. Alfred Chatterton. Madras, G. A. Natesan & co., 1906.
240p.

Lift irrigation. C. Rengasamiengar. Mysore engineers association.
Bulletin. v.2. p.22-97. July-September 1924. Discusses
extent of lift irrigation in Mysore, and branches of irrigation.

Limiting factors in pumping irrigation-water. F. W. Hanna. Agricultural
journal of British Columbia. v.7. p.178-179. October 1922.

Low cost irrigation for farms. O. W. Willcox. Facts about sugar. v.29.
p.5-6. January 1934. Home-made systems run by Diesel or
electric power which are found cost savers by Western sugar beet growers.

- Low cost pumping with Diesel engines. Diesel digest. v.1.
p.8,18. June 1934. Diesel engine claimed to saving factor
to users of power for pumping; data sheet showing acres irrigated by
varying quantities of water and comparative costs for electric and
Diesel power.
- Making water run uphill. Electrical west. v.65. p.130-132.
September 1, 1930. Notes on equipment and installation; up six
canal steps electric pumps lift water 140 ft. to irrigate on masse
rather than by numerous individual pumping plants 22,000 acres on West
side of San Joaquin valley.
- Mechanical tests of pumping plants in California. J. N. LeConte and
C. E. Tait. U. S. Department of agriculture. Office of experiment
stations. Bulletin no.181. Washington, D. C., 1907. 72p.
- Mechanical tests of pumps and pumping plants used for irrigation. Joseph
Nisbet LeConte. U. S. Department of agriculture. Office of
experiment stations. Bulletin no.158. Washington, D. C., 1905.
p.195-255.
- Mechanical tests of pumps and pumping plants used for irrigation and
drainage in Louisiana in 1905 and 1906. W. B. Gregory. U. S.
Department of agriculture. Office of experiment stations. Bulletin
no.183. Washington, D. C., 1907. 72p.
- Methods and costs of pumping for irrigation in Arkansas river valley.
Engineering and contracting. v.50. p.29-30. July 10, 1918.
- Minidoka power and pumping system. Barry Dibble. Idaho society of
engineers. Journal. v.2. p.43-54. June 1912. Illustrated
description of the largest pumping system that has been undertaken.
- Motor driven irrigation pumping plants and the electrical district.
G. E. P. Smith. Arizona. Agricultural experiment station. Bulletin
no. 99. Tucson, Ariz., 1924. 67-141p.
- Neuzutliche schopfwerkanlagen. E. Schulz. Zeitschrift des vereines
Deutscher ingenieure. v.74. p.1225-1233. September 6, 1930.
- New tests of certain pumps and water lifts used in irrigation. Ozní Porter
Hood, Washington, D. C., Government printing office, 1898. 9lp.
U. S. Geological survey. Water supply and irrigation paper no.14.
- New water self-raiser; efficient method of using low heads. Agricultural
journal of India. v.18. p.67-72. January 1923.
- Notes on pumping plants for irrigation and drainage areas in Murray basin.
H. G. Tolley. Institution of engineers of Australia. Journal. v.8.
p.73-78. March 1934. Problems in design of irrigation or
reclamation scheme; engine selection; analysis of cost of water pumped.

- Obras de riego en el valle del Rio Bravo. O. Adams. Ingenieria international. v.19. p.155. April 1931. Irrigation works in valley of Rio Grande.
- On raising water for the purposes of irrigation in the colonies. Piazzzi Smyth. London, Practical mechanics journal office, 1853. 15p.
- One year's work done by a 16 foot geared windmill. F. H. King. Wisconsin. Agricultural experiment station. Bulletin no.68. Madison, Wis., 1898. 44p.
- Operating features of a California pumping project. Electrical review. v.73. p.523-525. October 5, 1918. Terra Bella irrigation system operated entirely by motor-driven pumps.
- Permanence of electric pumping in California. C. H. Lee. Journal of electricity. v.44. p.161-163. February 15, 1920.
- Power plant for rice irrigation. John W. Maxcy. Engineering record. v.59. p.332-333. March 20, 1909. Bried description of a plant near Wharton, Texas.
- Practical irrigation and pumping; water requirements; methods of irrigation and analyses of cost and profit. Burton P. Fleming. New York, John Wiley & sons, inc., 1915. 226p.
- Principles governing the choice, operation and care of small irrigation pumping plants. C. N. Johnston. California. Agricultural experiment station. Circular no.312. Berkeley, Cal., 1928. 28p.
- Pump in a thirsty land. W. V. Woehlke. Sunset. v.35. p.712-721. October 1915.
- Pump irrigation and water table studies. H. E. Weakly. Nebraska. Agricultural experiment station. Bulletin no.271. Lincoln, Neb., 1932. 14p.
- Pump irrigation at the North Platte experimental substation. H. E. Weakly. Nebraska. Agricultural experiment station. Bulletin no.301. Lincoln, Neb., 1936. 12p.
- Pump irrigation in Nebraska. E. E. Brackett and O. W. Sjogren.. Nebraska. Agricultural experiment station, Circular no.2. Lincoln, Neb., 1917. 28p. Design, tests and cost.
- Pump irrigation in the west. Hunter Morrison. Yale scientific magazine. v.4. p.220-225. February 1898. Describes method of irrigating the Great Plains of Kansas, Nebrasks, etc., and the benefits derived.

Pump irrigation investigations in Nebraska. E. T. Brackett and E. B. Lewis. Nebraska. Agricultural experiment station. Bulletin no. 282. Lincoln, Neb., 1933. 31p.

Pump irrigation on the Great Plains. H. V. Hinckley. Engineering magazine. v.11. p.16-33. April 1896. Showing that pump irrigation contributes to the preservation of small farming and increases the value of land, and giving directions regarding selection of plant and power.

Pump irrigation results. H. E. Weakly and L. L. Zook. Nebraska. Agricultural experiment station. Bulletin no.227. Lincoln, Neb., 1928. 12p.

Pumping brings prosperity. American thresherman. v.22. p.6. January 1920.

Pumping by oil-engines; Divi irrigation works. Percy Hawkins. Institution of civil engineers. Minutes of proceedings. v.176. p.308-316. 1908/09. Describes a scheme for irrigating this island in the Bay of Nebgal, at the mouth of the Kistna river.

Pumping equipment for sugar beet fields. O. L. Waller. Sugar. v.23. p.132-134. March 1921.

Pumping for irrigation. L. N. McClellan. Reclamation record. v.14. p.202-208. June 1923. Use of pumping in areas too high for gravity canal system; centrifugal pumps; pumping from wells; air-lift and direct pumping.

Pumping for irrigation. H. E. Murdock. Montana. Agricultural experiment station. Circular no.60. Bozeman, Mont., 1917. 37p.

Pumping for irrigation; Fuel test of crude oil, kerosene and gasoline. J. J. Vernon, F. E. Lester, and H. C. McLallen. New Mexico. Agricultural experiment station. Bulletin no.53. State College, N. M., 1904. 16p.

Pumping for irrigation from wells. J. J. Vernon and F. E. Lester. New Mexico. Agricultural experiment station. Bulletin no.45. State College, N. M., 1903. 67p.

Pumping for irrigation on the farm. P. E. Fuller. U. S. Department of agriculture. Yearbook, 1916. Washington, D. C., 1917. p.507-520. Separate no.703.

Pumping for irrigation with special reference to the Arkansas river valley. J. B. Marcellus. Kansas. State agricultural college. Division of college extension. Bulletin no.17. Manhattan, Kan., 1918. 16p.

- Pumping from open drains on Minidoka project. G. H. Hogue. Idaho engineer. v.6. p.11,32. December 1928. Account of drainage and water supply problem facing Idaho irrigation project; survey of wet areas; construction of project.
- Pumping from wells for irrigation. P. A. Ewing. U. S. Department of agriculture. Farmers' bulletin no. 1404. Washington, D. C., 1934. 28p.
- Pumping irrigation water. A. G. Solomon. Practical engineer. v.18. p.583-584. June 1, 1914. Difficulties encountered with pumps, boiler feed water, bagged boilers and oil fuel.
- Pumping plants for west Stanislaus irrigation district. P. C. Butte. Western construction news. v.5. p.203-205. April 25, 1930. Six pumping stations at Westley, Calif., will be equiped with 28 Pelton-Moody spiral pumps, of average capacity of 42 cu. ft. per sec., and normal static pumping head of 23 to 30 ft.; pole-line location; transformers and transmission lines.
- Pumping plants of the Bureau of reclamation. Engineering and contracting. v.69. p.406-408. November 1930.
- Pumping plant of the Huntley irrigation project. F. W. Hanna. Engineering news. v.60. p.261-262. September 3, 1908. Illustrated description of a pumping system on the Yellowstone river, Montana.
- Pumping seepage water from wells for irrigation. E. H. Neal. Engineering news record. v.104. p.1020. June 19, 1930.
- Pumping stations of the Minidoka irrigation project. Engineering record. v.61. p.204-206. February 19, 1910. Illustrates and describes the design and equipment of the pumping stations and uses made of the current from this hydroelectric development in Idaho.
- Pumping stations on Nile. B. Hiltmann. Siemens review. v.11. p.103-107. 1935. Discussion of series of electric pumping stations for irrigation purposes as built by Siemens & Schuckert, Egyptian branch; current for operating these pumping stations is obtained from existing steam power station at Idfu, half way between Luxor and Asswan, about 500 mi. south of Cairo.
- Pumping water efficiently. Irrigation age. v.31. p.138. July 1916.
- Pumping water for irrigation. Herbert M. Wilson. Washington, D. C., Government printing office, 1896. 57p. U. S. Geological survey. Water supply and irrigation paper no.1.

- Pumping water for irrigation compared with gravity system; the High line pumping co.'s irrigation system, Idaho. E. V. Berg. Engineering and contracting. v.36. p.192-195. August 16, 1911. Discusses when pumping is possible and methods.
- Pumping water for irrigation makes important power load. W. A. Scott. Electrical review. v.75. p.517. September 27, 1919.
- Pumping water for irrigation with high lifts. Journal of electricity. v.57. p.58-59. July 15, 1926.
- Pumps for farm water supply. C. A. Cameron Brown. Oxford, University press, 1934. 42p.
- Pumps water for berries. E. H. Favor. Fruit grower. v.27. p.363. July 15, 1916.
- Pumpwerke am Nil. B. Hiltman. Siemens zeitschrift. v.15. p.29-33. February 1935. Description of various types of 500-v. electrically driven irrigation pumping plants on Nile river, Egypt, supplied from 30 kv. 3-phase line via transformers.
- Punjab government's prize of Rs 2,000 for the design of an improved Persian wheel. Agriculture and livestock in India. v.2. p.226. March 1932.
- Rainfall and agricultural power ora. S. B. Shaw. Journal of electricity. v.37. p.242-243. 1916. Graphically represents consumption of electricity by irrigation through the seasons.
- Rendimiento de las bombas es ahora mas elevado que anteriormente. R. MacKlean. Hacienda. v.31. p.378-379. November 1936.
- Report on drainage and pumping stations in Holland. A. L. Webb. Cairo, National printing office, 1897. 52p.
- Riego con bombas electricas. Emilio Guarini. Anales de la Sociedad cientifica Argentina. v.67. p.112-128. March 1909. Irrigation with electric pumps. Description of the practice in the Department of Arequipa, Peru.
- Rueda flotante de paletas moviles. F. A. Soldano. Contribucion al estudio de las ciencias fisicas y matematicas. Universidad nacional de la Plata. v.1. p.499-509. November 1918. Floating hydraulic wheel with feathering paddles. Hydraulic wheel installed at Coronda, Argentina, for raising river water a height of 40 ft. for irrigation. Water is operated by kinetic energy of current of river. Paddles are composed of two folding panels with open gradually as they enter the water, receiving complete impact of current when fully submerged.

- Selbsttaetige elektrische wasserversorgung fuer gaertnereibetriebe.
Moertzsch and E. Beck. Elektrizitaetswirtschaft. v.30.
p.484-486. August 1931. Automatic electric irrigation
in gardening. Determination of water requirements and size of pump;
nomogram for determining capacity of pumps of various size; install-
ation and costs of pump installations.
- Selecting a centrifugal pump. B. D. Moses. Pacific rural press.
v.117. p.392. March 23, 1929.
- Selecting the pump, power and piping for irrigation purposes. O. E.
Robey. Michigan. Agricultural experiment station. Quarterly
bulletin. v.14. p.247-253. May 1932.
- Selection and installation of a pumping plant for irrigation. J. B.
Marcellus. Kansas. Board of agriculture. Report, 1918.
Topeka, Kansas, 1919. p.111-124.
- Selection and installation of a small pumping plant for irrigation. B. A.
Etcheverry. Engineering and contracting. v.40. p.522-527.
November 5, 1913. Discusses the factors that should be considered
in the proper selection of a pumping plant.
- Sitting up with a pumping plant. R. Newman. Pacific rural press.
v.111. p.403. March 27, 1926.
- Small irrigation pumping plant. B. P. Fleming. New Mexico. Agri-
cultural experiment station. Bulletin no.71. State College,
N. M., 1909. 75p.
- Small irrigation pumping plant. W. L. Powers and W. J. Gilmore. Oregon.
Agricultural experiment station. Bulletin no.160. Corvallis, Ore.,
1919. 16p.
- Specification for selecting pumping equipment. R. H. Parrish. Power.
v.74. p.389. September 15, 1931. Classification of
irrigation pumping into four groups according to pump and motor
requirements; practical discussion of factors to be considered in
purchase and installation of pumps and motors.
- Suburban irrigation by central stations. R. B. Mateer. Electrical
world. v.59. p.103-104. January 13, 1912.
Illustrated description of a motor operated pumping installation,
near Denver, Colo.
- Suggestions concerning small irrigation pumping plants. W. E. Code.
Colorado. Agricultural experiment station. Bulletin no.350.
Fort Collins, Colo., 1929. 22p.

- Supply, the price, and the quality of fuel oils for pump irrigation.
G. E. P. Smith. Arizona. Agricultural experiment station.
Bulletin no.92. Tucson, Ariz., 1920. 397-423p.
- Test of a rotary pump. W. B. Gregory. American society of mechanical engineers. ~~Transactions~~. v.28. p.745-769.
1906. Describes the plant tested, the property of the Abbeville, La., canal company, used to furnish water for rice irrigation; also the tests made, giving results.
- Testing of irrigation pumping plants. Engineering news. v.58. p.674-676. December 19, 1907. Report of field work in California to determine the actual cost of pumping water for irrigation by various methods and under various conditions.
- Tests of a deep-well irrigation pumping plant. George S. Knapp. Engineering news. v.72. p.720-723. October 8, 1914. Describes a pumping-plant near Garden city, Kan., and reports tests made.
- Text book of applied hydraulics. Herbert Addison. New York, Chapman & Hall, Ltd., 1934. 409p.
- Underground waters and pumping therefrom. G. W. Trauger. American water works association. Journal. v.17. p.318-326. March 1927.
- Use of electricity in irrigation for intensive farming. D. R. Palmquist. Electrical review. v.63. p.959-963. November 15, 1913. Deals with irrigation in the humid and semi-humid sections, pointing out the possibilities of supplying power for pumping.
- Use of windmills in irrigation in the semiarid west. P. E. Fuller. U. S. Department of agriculture. Farmers' bulletin no.394. Washington, D. C., 1910. 44p.
- Use of windmills in irrigation in the semiarid west. P. E. Fuller. U. S. Department of agriculture. Farmers' bulletin no.866. Washington, D. C., 1917. 38p.
- Use of windmills in irrigation on the high plains. E. P. Eshbaugh. Panhandle. Agricultural experiment station. Bulletin no. 16. Goodwell, Okla., 1930. 13p.
- Usines elevatoires et pompes pour irrigation. L. Bergeron. Societe des ingenieurs civils de France. Bulletin. v.84. p.1427-1439. September 1931.
- Utilization of groundwater by pumping for irrigation. G.E.P. Smith. International engineering congress, 1915. Transactions. San Francisco, Cal., 1916. p.414-457.

- Wells and windmills in Nebraska. Erwin Hickley Barbour. Washington, D. C., Government printing office, 1899. 85p. U. S. Geological survey. Water supply and irrigation paper no.29.
- Where pumping pays. C. F. Tucker. California cultivator. v.62. p.189. February 16, 1924.
- Williston and the Buford-Trenton electric irrigation projects. C. P. Eldred. Electrical world. v.59. p.1304-1307. June 15, 1912. Illustrated description of the transmission of energy directly from lignite coal mines for irrigation pumping.
- Windmill: its efficiency and economic use. Edward Charles Murphy. Washington, D. C., Government printing office, 1901. 2v. U. S. Geological survey. Water supply and irrigation paper nos. 40-41.
- Windmill irrigation in Kansas. P. Eastman. Review of reviews. v.29. p.183-187. February 1904.
- Windmills and the state of Kansas. Independent. v.77. p.274. February 23, 1914.
- Windmills for irrigation. Edward Charles Murphy. Washington, D. C., Government printing office, 1897. 49p. U. S. Geological survey. Water supply and irrigation paper no.8.

RECLAMATION.

- Annual report. U. S. Bureau of reclamation. 1903 - date. Washington, D. C., 1903 - date.
- Bill to promote reclamation of arid and swamp lands. Irrigation age. v.32. p.59-60. February 1917.
- Can we afford not to reclaim? the other side of the irrigation question. M. N. Dana. Nation's business. v.16. p.39-40. October 1928.
- Cost of developing desert land. O. H. Barnhill. California cultivator. v.71. p.173. August 25, 1928.
- Defrichement des bruyeres de la Campine. Memoire sur l'intervention projectee du gouvernement. Bruxelles, E. Devroye et ce, imprimeur du roi, 1845. 132p.
- Deserts on the march. P. B. Sears. Norman, Okla., University of Oklahoma, Faculty exchange, 1935. 231p.

- Developing new land under irrigation. R. P. Dean. Washington.
Agricultural experiment station. Popular bulletin no.136. Pullman,
Wash., 1926. 28p.
- Developpement actuel et le programme des ameliorations foncieres dans la
Republique Tchecoslovaque. Jan Horak. Prague, 1931. 56p.
- Discussion of projects from the Thirteenth annual report together with
detail estimates of work to be accomplished with the money recommended
for appropriation for the fiscal year 1916 compared with expenditures
during the fiscal year 1914. U. S. Bureau of reclamation.
Washington, D. C., Government printing office, 1915. 500p.
- Drama of the desert. W. H. Dean. Technical world. v.23.
p.169-172. April 1915.
- Economic and social aspects of federal reclamation. Dorothy Lampen.
Baltimore, Johns Hopkins press, 1930. 125p. Johns Hopkins
university. Studies in history and political science. Series v.48,
no.1.
- Economic aspects of land reclamation in eastern Oregon. J. T. Jardine.
Engineering news record. v.106. p.441-443. March 12, 1931.
Excellent soil adequate water supply and established communities are
among physical advantages; markets for principal products are rapidly
expanding; expert opinion on financial soundness indicates terms can
be met.
- Economic justification for land reclamation activities. E. Mead.
Agricultural engineering. v.11. p.87-90. March 1930.
- Economic problems of western reclamation. J. W. Haw. Agricultural
engineering. v.12. p.123-128. April 1931.
General optimistic discussion ending with conclusion that program of
bringing in more irrigated lands in anticipation of demands of growing
country is and will be, for many years to come, sound economics for
west.
- Economics of land reclamation in the United States. Ray Palmer Teele.
Chicago, Ill., A. W. Shaw company, 1927. 337p.
- Egyptian irrigation. Sir William Willcocks. London, E. & F. N. Spon,
ltd., 1913. 2v.
- Elements of western water law. A. E. Chandler. San Francisco, Cal.,
1913. 150p.
- End of a chapter in reclamation. J. A. Widtsoe. Country gentleman.
v.91. p.25. December 1926.

- Execution de la loi du 25 mars 1847, sur le defrichement des terrains incultes. Compte rendu. Belgium. Ministere de l'interieur. Bruxelles, 1850. 279p.
- Experiments on the reclamation of alkali soils by leaching with water and gypsum. California. Agricultural experiment station. Technical paper no.9. Berkeley, Cal., 1923. 14p.
- Federal irrigation projects. U. S. Reclamation service. Washington, D. C., 1925. 50p.
- Federal irrigation projects. Washington, D. C., U. S. Board of survey and adjustments, 1926. 61p. U. S. 69th congress. House. Document no.201.
- Federal land reclamation: A national problem. F. H. Newell. Engineering news. v.91. p.666-673. October 25, 1923.
- Federal land reclamation: a national problem. C. S. Scofield. Engineering news. v.91. p.756-761. November 8, 1923.
- Federal reclamation by irrigation. Message from the President of the United States transmitting a report submitted to the secretary of the interior by the Committee of special advisors on reclamation. Washington, D. C., Government printing office, 1924. 230p. U. S. 68th congress. Senate. Document no.92.
- Federal reclamation projects. October 1935. Washington, D. C., U. S. Government printing office, 1935. 96p.
- Federal subsidy in land reclamation. R. P. Teele. Journal of land and public utility economics. v.3. p.337-342. November 1927.
- From crocodiles to cotton. E. V. Wilcox. Country gentleman. v.93. p.20 - 21. October 1928.
- Future of reclamation. E. Mead. Country gentleman. v.89. p.7. November 29, 1924.
- Government reclamation policy in British India. E. S. Lindley. American society of civil engineers. Transactions. v.94. p.1333-1343. 1930. British Indian landworks; experience with lower Chenab canal; lessons learned from Indian reclamation.
- Government reclamation work in foreign countries; compiled from consular reports and official documents, Edward D. McQueen Gray. Washington, D. C., Government printing office, 1909. 115p.

Gravity extension division, Minidoka project, Idaho. E. D. Darlington.
Western construction news. v.5. p.161-163. March 25, 1930.
Main features of reclamation plan to supply Snake river water to
80,000 acres of irrigable land.

Great Gunnison irrigation project. A. Wilhelm. Scientific american
supplement. v.68. p.184. September 18, 1909.

How reclamation projects may be financed and constructed. W. R. King.
Irrigation age. v.32. p.101-105. May 1917.

Irrigated lands in the U. S. Descriptions of all reclamation service
projects - their location, acreage, cost of water rights, suitable
crops, markets, railroad facilities and principal towns. Complete
list of government irrigated lands and Carey act projects. Many
important private irrigation enterprises. St. Paul, Minn., Webb
publishing co., 1911. 66p.

Irrigated pastures for northern reclamation projects. F. D. Farrell.
Washington, D. C., U. S. Department of agriculture, 1916. 16p.

Irrigation: how the federal government is reclaiming arid land. W. R.
Draper. Independent. v.64. p.1172-1178. May 28, 1908.

Irrigation and drainage laws critically reviewed. R. P. Teele.
Engineering news. v.94. p.788-790. November 13, 1924.

Irrigation and reclamation. Western construction news. v.4.
p.382-390. July 25, 1929. Review of progress being made
on Kittitas division, Yakima project, Washington; canal extension,
Minidoka gravity canal, Burley, Idaho; Vale project, Vale, Ore.;
Owyhee dam, Ore.; power development by B. C. Electric railway co.,
Vancouver; Salt river valley waters users association, Phoenix,
Arizona; Great western power co. San Francisco; Leaburg hydro-
electric development, Eugene, Ore.

Irrigation and reclamation in New England. World's work. v.34.
p.140. June 1917.

Irrigation and reclamation laws, etc., of Australia, Canada, Great
Britian, India and South Africa. C. L. W. Meyer. Washington, D. C.,
Government printing office, 1925. 243p.

Irrigation and reclamation of land for agricultural purposes, as now
practiced in India, Egypt, Italy, etc. 1875. Washington, D. C.,
U. S. Coast and goodetic survey, 1876. 73p.

Irrigation as a means of preparedness for defense. J. M. Hess.
Irrigation age. v.31. p.183-184. October 1916.

- Irrigation opportunities and duties of federal government in western land reclamation. F. H. Newell. Engineering news. v.90. p.28-29. January 4, 1923.
- Irrigation profiteers. E. Mead. Country gentleman. v.89. p.6. December 20, 1924.
- Irrigation profits in Wyoming. W. C. Deming. Independent. v.62. p.1079-1085. May 9, 1907.
- Irrigation requirements of the arid and semi-arid lands of the Columbia river basin. S. Fortier and A. A. Young. U. S. Department of agriculture. Technical bulletin no.200. Washington, D. C., 1930. 55p.
- Irrigation requirements of the arid and semi-arid lands of the Missouri and Arkansas river basins. S. Fortier. U. S. Department of agriculture. Technical bulletin no.36. Washington, D. C., 1928. 112p.
- Irrigation requirements of the arid and semi-arid lands of the Pacific slope basins. S. Fortier and A. A. Young. U. S. Department of agriculture. Technical bulletin no.379. Washington, D. C., 1933. 69p.
- Irrigation requirements of the arid and semi-arid lands of the southwest. S. Fortier and A. A. Young. U. S. Department of agriculture. Technical bulletin no.185. Washington, D. C., 1930. 68p.
- Irrigation works in Arizona. C. L. Gates. Association of engineering societies. Journal. v.37. p.157-162. December 1906. Treats of the reclaiming of the arid lands for agriculture, by irrigation, giving the cost of the Salt river storage tank and its accessories.
- Land economics and reclamation in Peru. C. W. Sutton. Journal of land and public utility economics. v.5. p.370-384. November 1929.
- Land reclamation and irrigation works in Italy. Engineer. v.150. p.182-183. August 15, 1930.
- Large irrigation projects in western Canada. E. F. Drake. Contract record. v.35. p.419. April 27, 1921. 990,000 acres of irrigable land are involved in developments which will proceed soon. Reclamation service to make surveys this year on another 1,100,000 acres.
- Making the American desert bloom. Current history. v.31. p.123-132. October 1929.
- Making the American desert bloom; the increasing importance of federal reclamation. Index. v.10. p.199-204. October 1930.

Manual of the United States reclamation service. F. H. Nowell, director.
Washington, D. C., Government printing office, 1913. 630p.

Moratorium for water users; hearings before the Committee on irrigation
and reclamation, United States senate, seventy-second congress, first
session, on S.2152. Washington, D. C., Government printing office,
1932. 145p.

National reclamation by irrigation. E. Mead. Engineering and
contracting. v.63. p.326-328. February 11, 1925.

National reclamation arid lands. Clarence J. Blanchard. U. S.
Smithsonian institution. Annual report, 1906. Washington,
D. C., 1907. p.469-492.

National reclamation policy. J. B. Lippincott. American society of
civil engineers. Transactions. v.95. p.1307-1320.
1931. Explanatory statement supplementary to official report
of committee of irrigation division; waiving of interest payments
unwise; collection of physical data; regulation of streams; con-
struction of works by public or private agencies; water and power
should be disposed of at wholesale; benefits from public funds should
be extended to all water users on stream; land settlement essential
to success; accomplishments of reclamation service.

National reclamation policy: economic aspects of federal reclamation.
E. Mead. American society of civil engineers. Transactions.
v.95. p.1321-1418. 1931.

Object lesson in irrigation. C. J. Blanchard. Review of reviews.
v.31. p.701-704. June 1905.

Our gigantic irrigation work. Country calendar. v.1. p.117-
118. June 1905.

Place of federal reclamation in the federal land policy. Elwood Mead.
Washington, D. C., Government printing office, 1931. 8p.

Possible method of reclamation for the arid west. William O. Mieir.
Westminster, Colo., 1909. 21p.

Possibility of the permanent reclamation of Tulare lake basin, Calif-
ornia. Charles H. Lee. Engineering news. v.57. p.27-
30. January 10, 1907. Discusses the problem of the re-
clamation of this overflow sand. Describes the situation and conditions,
and considers its reclamation feasible both from an engineering and
financial standpoint.

Power aspects of federally-operated reclamation projects. W. D.
Ketchum. Edison electric institute. Bulletin. v.3. p.449-
451. December 1935.

- Private irrigation enterprise compared with government reclamation.
Francis G. Tracy. Washington, D. C., Government printing office,
1912. 23p. U. S. 62d congress. Senate. Document
no.869.
- Problems of western reclamation. R. C. E. Weber. New reclamation
era. v.22. p.50-51. March 1931. Repayment
of charges furthers new construction; repayments not required on
poor land; requirements of settlers; engineering experience of bureau;
riperian rights; benefits of reclamation.
- Progress in national land reclamation in the United States. C. A.
Bissell. U. S. Smithsonian institution. Annual report, 1919.
Washington, D. C., 1921. p.497-522.
- Progress in reclamation of arid lands in the western United States.
J. B. Beadle. U. S. Smithsonian institution. Annual report,
1915. Washington, D. C., 1916. p.467-488.
- Progress in reclamation of arid lands in the western United States.
F. H. Newell. U. S. Smithsonian institution. Annual report,
1910. Washington, D. C., 1911. p.169-198.
- Protection of Sacramento and Feather rivers, California. California
debris commission. Washington, D. C., 1900. 42p.
U. S. 56th congress. House. Document no.431.
- Quality of irrigation water in relation to land reclamation. C. S.
Scofield and F. B. Headley. Journal of agricultural research.
v.21. p.265-278. May 16, 1921.
- Real conquest of the west. A. W. Page. World's work. v.15.
p.9691-9704. December 1907.
- Reclaiming reclamation; government's new irrigation plan. H. Work.
Country gentleman. v.89. p.9. August 30, 1924.
- Reclaiming the arid southwest. R. M. Barker. Forum. v.33.
p.363-371. May 1902.
- Reclaiming the arid west; the story of the United States reclamation
service. George Wharton James. New York, Dodd, Mead and
company, 1917. 411p.
- Reclaiming the desert. C. J. Blanchard. Geographical society of
Philadelphia. Bulletin. v.7, no.1. Philadelphia, Pa., 1909.
10p.
- Reclaiming the desert. C. J. Blanchard. Mentor. v.6.
p.1-11. October 15, 1918.

- Reclaiming the desert. J. B. Dugger. Collier's. v.49.
p.29. August 3, 1912.
- Reclaiming the desert: the Salt river valley of Arizona. C. H. Forbes-
Lindsay. Craftsman. v.15. p.696-706. March 1909.
- Reclaiming the desert: the transformation of arid lands into farms and
homes; the quickening of Nevada. C. Forbes-Lindsay. Craftsman.
v.15. p.573-584. February 1909.
- Reclaiming the Sudan desert. A. Clyne. Current history magazine.
v.19. p.467-472. December 1923.
- Reclaiming the waste. Current literature. v.33. p.21-27.
July 1902.
- Reclamation. F. H. Newell. Outlook. v.83. p.933-941.
August 25, 1906.
- Reclamation, a sound national policy; an inquiry into the effects of
irrigation development on local, state and national economy as demon-
strated by the Yakima valley and other irrigated areas in Washington.
June 1936. Washington, State planning council. Olympia, 1936.
118p. mimeographed.
- Reclamation advisors report on needs of projects and policy for future
irrigation. Engineering news record. v.92. p.726-729.
April 24, 1924. Report rendered by Special advisors on reclama-
tion. Original law found ineffective; recommends repayment according
to productivity of land; financial and agricultural aid necessary for
success.
- Reclamation as an aid to industrial and agricultural balance. E. P.
Goodrich and C. V. Davis. American society of civil engineering.
Proceedings, v.62. p.1377-1408. November 1936.
- Reclamation from the viewpoint of the settler. E. Gillette. Irrigation
age. v.31. p.119-121. June 1916.
- Reclamation, irrigation and finance. G. E. Anderson. Barron's.
v.10. p.117. September 1, 1930.
- Reclamation of American swamps. G. E. Walsh. Cassier. v.34.
p.468-472. September 1908.
- Reclamation of ancient Babylonia by irrigation. Edgar J. Banks.
Engineering news. v.69. p.468-469. March 6, 1913.
Account of proposed reclamation at a cost of \$60,000,000.

- Reclamation of arid lands; the Harvey water motor. A. A. Johnson.
Wyoming. Agricultural experiment station. Bulletin no.18. Laramie,
Wyo., 1894. 47-72p.
- Reclamation of arid lands by irrigation. California State board of trade.
San Francisco, Cal., 1889. 52p.
- Reclamation of arid west by federal government. A. P. Davis. American
academy of political and social science. Annals. v.31. p.203-
218. January 1908.
- Reclamation of seeped and alkali lands. C. F. Brown and R. A. Hart.
Utah. Agricultural experiment station. Bulletin no.111. Logan,
Utah, 1910. 75-92p.
- Reclamation of swamp lands. H. C. Hansbrough. Independent. v.62.
p.320-322. February 7, 1907.
- Reclamation of the arid lands of the west. Scientific american. v.101.
p.428-429. December 11, 1909. An illustrated review of
the projects for irrigating arid lands, both past and under present con-
struction.
- Reclamation of the arid public lands. F. H. Newell. Independent.
v.54. p.1243-1244. May 22, 1902.
- Reclamation of the arid west. F. H. Newell. Science. n.s., v.33.
p.681-684. May 5, 1911.
- Reclamation of the North Platte valley. W. S. Coulter. Popular science.
v.70. p.372-377. April 1907.
- Reclamation of the west. F. H. Newell. U. S. Smithsonian institu-
tion. Annual report, 1903. Washington, D. C., 1904.
p.827-841.
- Reclamation of the west. F. H. Newell. National geographic magazine.
v.15. p.827-841. January 1904.
- Reclamation of waste lands in western Canada. E. F. Drake. Canadian
engineer. v.44. p.119-122. January 9, 1923.
- Reclamation policy held sound in committee report. J. W. Haw and F. E.
Schmitt. Engineering news record. v.114. p.167-169.
January 31, 1935. Abstract of report recommending collection of re-
payments of bank system, planning based on stream-system development,
Federal control of storage, and adoption of uniform power policy for
future program of irrigation in arid west.

- Reclamation problems analyzed in economic study. Engineering news record. v.105. p.175. July 31, 1930. Abstract of special study of western irrigation projects, both Federal and private, carried by board of experts appointed by President; active state cooperation in construction and maintenance urged; government credit for individual settlers needed.
- Reclamation project of the Idaho irrigation company. Engineering record. v.60. p.706-710. December 25, 1909. Map and illustrated detailed description of a project under development in southern Idaho.
- Reclamation projects. Letter from the secretary of the interior, transmitting information in compliance with Senate resolution of February 10, 1910, as to the amount of money required to finish reclamation projects now under consideration and the amount of money expended under each of the projects, etc. Washington, D. C., Government printing office, 1910. 3lp. U. S. 61st congress. Senate. Document no.376.
- Reclamation projects of the government of Peru. W. Manger. Pan American union. Bulletin. v.64. p.439-446. May 1930.
- Reclamation service. F. H. Newell. Popular science. v.66. p.106-116. December 1904.
- Reclamation service and the Imperial valley. L. M. Holt. Overland. n.s., v.51. p.70-75. January 1908.
- Redeeming the west. C. J. Blanchard. Sunset. v.17. p.207-214. September 1906.
- Relation of reclamation of arid land by irrigation to the national land use program; abstract and discussion. J. W. Haw. Engineering news record. v.117. p.125-126. July 23, 1936.
- Report in the matter of the investigation of the Salt and Gila rivers - reservations and reclamation service. Washington, D. C., Government printing office, 1913. 736p. U. S. 62d congress. House. Report no.1506.
- Report of the committee of the irrigation division on a national reclamation policy. American society of civil engineers. Transactions. v.95. p.1303-1418. 1931.
- Report of the committee on irrigation and reclamation of arid lands on the investigation of irrigation projects ... Washington, D. C., Government printing office, 1911. 917p. U. S. 61st congress. Senate. Report no.1281.

- Report of the Select committee on irrigation projects (with proceedings and minutes of evidence). Printed by order of the House of assembly, May, 1919. Cape Town, Cape times limited, government printers, 1919. 126p.
- Report of the special committee of the United States senate on the irrigation and reclamation of arid lands ... Washington, D. C., Government printing office, 1890. 6v. U. S. 51st congress. Senate. Report no.928.
- Report of the Special committee of the United States senate on the irrigation and reclamation of arid lands ... Washington, D. C., Government printing office, 1890. 2v.
- Report on federal reclamation. December 1, 1934. John W. Haw and F. E. Schmitt. Washington, D. C., Government printing office, 1935. 133p.
- Report on the engineering, agricultural, and economic feasibility of the Kittitas division, Yakima project, Washington; Baker project, Oregon; Vale project, Oregon; Owyhee project, Oregon-Idaho; Spanish Springs, project, Nevada; Great Salt lake basin project, Utah; Willwood division, Shoshone project, Wyoming. Washington, D. C., Government printing office, 1925. 272p.
- Rich empire lands that were desert wastes. R. Vere. World today. v.49. p.279-284. February 1927.
- Salt river irrigation project - Arizona. Hearing before the Committee on irrigation and reclamation of arid lands, United States senate, sixty-second, congress, second session, on Salt river irrigation project, Arizona. February 29, 1912. Washington, D. C., Government printing office, 1912. 24p.
- Service that makes the desert bloom. F. Palmer. Hampton magazine. v.26. p.699-712. June 1911.
- Special statistical report on reclamation revolving fund, land settlement, Whitestone reclamation district, Kittitas project and Columbia basin project. Olympia, Washington department of conservation and development, 1925. 128p.
- Spending \$1,500,000,000 to make a desert bloom. C. H. Forbes-Lindsay. Harpers weekly. v.51. p.158-161. February 2, 1907.
- State aid to irrigation and swampland reclamation projects. C. E. Grunsky. Pan American scientific congress. Proceedings, 1915. v.3. p.835-840. 1917.
- States reclamation in Washington. R. K. Tiffany. American society of civil engineers. Transactions. v.92. p.582-605. 1928.

Suggestions for report of Senate committee on irrigation. Francis G. Newlands. Washington, D. C., Government printing office, 1911. 20p.

Tale of Uncle Sam's voyage in an irrigating ditch. G. Garrett. Saturday evening post. v.197. p.8-9. January 17, 1925.

Temporary relief for water users on irrigation projects constructed and operated under the reclamation law; hearings before the Committee on rules, House of representatives, seventy-second congress, first session on H. Res. 152, and H. Res. 9489, February 23, 1932. Washington, D. C., Government printing office, 1932. 28p.

Through the reclamation country. F. E. Schmitt. Engineering news. v.91. p.566, 603-604, 636, 676-677, 722-723, 766-767. October 4 - November 8, 1923.

To promote the reclamation of arid lands on the public domain. Hearings before the Committee on irrigation of arid lands, House of representatives. Sixty-fourth congress, 1st session, on H. R. 262. February 26, 1916. Washington, D. C., Government printing office, 1916. 28p.

Truckee-Carson project of the United States reclamation service. W. P. Hardesty. Engineering news. v.56. p.391-401. October 18, 1906. An illustrated detailed description of this great engineering project for the reclamation of about 350,000 acres of land, at an estimated cost of \$9,000,000.

Truckee-Carson reclamation project. H. I. Bennett. Scientific american. v.93. p.216-217. September 1916.

United States reclamation service. Engineer. v.102. p.2-3. July 6, 1906. Explanation of the methods of carrying on the work of irrigation in the western part of the United States.

United States reclamation service. J. Mulholland. Institution of engineers of Australia. Journal. v.4. p.69-75. February 1932. Historical and descriptive review of Federal irrigation in the United States; structures and features of technical interest.

Water-right problems of the Bighorn mountains. Elwood Mead. Washington, D. C., Government printing office, 1899. 62p. U. S. Geological survey. Water supply and irrigation paper no.23.

Watering the Uncompahgre valley in Colorado. A. Chapman. Review of reviews. v.40. p.177-182. August 1909.

Western federal reclamation. T. L. Oddie. American bankers association. Journal. v.18. p.550. February 1926.

- What the federal irrigation scheme augurs for the utilities. H. Corey.
Public utilities. v.11. p.636-645. May 25, 1933.
- What the great Klamath project means. C. J. Blanchard. Sunset.
v.17. p.207-214. September 1906.
- Wins wealth with a hose. G. B. Dolliver. Technical world. v.23.
p.471-472. June 1915.
- Work of the reclamation service. F. H. Newell. U. S. Smithsonian
institution. Annual report, 1904. Washington, D. C., 1905.
p.373-381.
- Work of the Scottsbluff reclamation project experiment farm in 1917.
J. A. Holden. U. S. Department of agriculture. Western irrigation
agriculture. Circular no.27. Washington, D. C., 1913. 23p.
- Work of the Yuma reclamation project experiment farm in 1917. R. E.
Blair. U. S. Department of agriculture. Western irrigation
agriculture. Circular no.25. Washington, D. C., 1918. 45p.
- Yuma reclamation project. J. B. Lippincott. U. S. Smithsonian
institution. Annual report, 1904. Washington, D. C., 1905.
p.383-388.

REPORTS.

- Annual report of irrigation and drainage investigations, 1904. R. P.
Teele and others. U. S. Department of agriculture. Office of
experiment stations. Bulletin no.158. Washington, D. C., 1905.
755p.
- Annual report of the irrigation division for 1929. American society
of civil engineers. Proceedings. v.56. p.97-101. March
1930.
- Irrigation practice: Report of four years' investigation at the Gooding
substation. J. S. Welch. Idaho. Agricultural experiment station.
Bulletin no.78. Moscoe, Idaho, 1914. 27p.
- Progress report of the committee of the irrigation division on co-operation
between federal and state agencies. American society of civil
engineers. Proceedings. v.53. p.362-366. November 1927.
- Report of irrigation investigation for 1900. Elwood Mead and others.
U. S. Department of agriculture. Office of experiment stations.
Bulletin no.104. Washington, D. C., 1902. 334p.

Report of irrigation investigations for 1901. R. P. Teale and others.
U. S. Department of agriculture. Office of experiment stations.
Bulletin no.119. Washington, D. C., 1902. 401p.

Report of irrigation investigations for 1902. L. R. Morgan and others.
U. S. Department of agriculture. Office of experiment stations.
Bulletin no.133. Washington, D. C., 1903. 266p.

Report of irrigation investigations in California under the direction of
Elwood Mead, assisted by William E. Smythe and others. U. S.
Department of agriculture. Office of experiment stations. Bulletin
no.100. Washington, D. C., 1901. 411p.

Report of the special agent in charge of the artesian and underflow
investigations and of the irrigation inquiry for 1891. Richard J.
Hinton. Washington, D. C., Government printing office, 1892.
439-450p. From report of the Secretary of agriculture for 1891.

Report of the State irrigation commissioner to the Kansas state board of
agriculture for the biennium July 1, 1920 - June 30, 1922. Topeka,
Kan., Kansas board of agriculture, 1922. 43p.

Report of experiment in the department of physics and engineering:
irrigation and meteorology. Elwood Mead. Colorado. Agricultural
experiment station. Bulletin no.1. Fort Collins, Colo., 1887.
12p.

Second progress report of cooperative irrigation investigations in Calif-
ornia. Frank Adams. U. S. Department of agriculture. Office
of experiment stations. Circular no.108. Washington, D. C.,
1911. 39p.

Work of the Office of experiment stations in irrigation and drainage.
U. S. Department of agriculture. Office of experiment stations.
Circular no.63. Washington, D. C., 1905. 31p.

SOILS.

Action of water and aqueous solutions upon soil carbonates. F. K.
Cameron and J. M. Bell. U. S. Department of agriculture. Bureau
of soils. Bulletin no.49. Washington, D. C., 1907. 64p.

Action of water and aqueous solutions upon soil carbonates. F. K.
Cameron and J. M. Bell. U. S. Department of agriculture. Bureau
of soils. Bulletin no.41. Washington, D. C., 1907. 53p.

Alkali in irrigated districts. Carl S. Scofield. U. S. Department
of agriculture. Yearbook, 1926. Washington, D. C., 1927.
p.142-145.

- Alkali problem on irrigated land; the sugar beet farmer should understand how to guard against this menace and how to overcome the condition when present. . W. P. Kelley. Sugar. v.25. p.256-258. May 1923.
- Certain effects under irrigation of copper compounds upon crops. R. H. Forbes. Arizona. Agricultural experiment station. Bulletin no.80. Tucson, Ariz.; 1916. 145-238p.
- Chemical nature of the soils of New South Wales, with special reference to irrigation. Frederick B. Guthrie. Royal society of New South Wales. Journal and proceedings. v.37, appendix p.51-65. 1903.
- Conductometric method of analysis as applied to soil survey work. R. C. Hoon. Lahore, Supt. govt. print. Punjab, 1932. 10p. India. Punjab irrigation research institute. Research publications. v.4, no.3.
- Drainage of irrigated fields controls alkali problem. C. S. Scofield. Engineering and contracting. v.67. p.182. April 1928.
- Drainage of irrigated lands on the Minidoka project, Idaho. Percival M. Fogg. Journal of the Idaho society of engineers. v.2. p.106-117. June 1912. Explains this drainage problem, as it has developed and is being solved.
- Drainage recovery from irrigation. D. W. Murphy. American society of civil engineers. Transactions. v.94. p.333-344. 1930.
- Drainage system for the north side Minidoka irrigation project. Engineering record. v.69. p.468-469. April 25, 1914. Discusses remedial measures for a problem in irrigation work.
- Drainage works of the Rio Grande irrigation project. J. L. Burkholder. Engineering news record. v.83. p.543-549. September 18, 1919.
- Effect of irrigation on soil composition. J. E. Graves. Sugar. v.27. p.278-279. June 1925.
- Effect of irrigation on soil temperatures. G. E. P. Smith. California citograph. v.17. p.277. May 1932.
- Effect of irrigation upon soil texture. T. H. Means. Science. n.s., v.84. p.39-40. July 10, 1936.
- Effect of irrigation water and manure on the nitrates and total soluble salts of the soil. F. S. Harris and N. I. Butt. Journal of agricultural research. v.8. p.333-359. February 26, 1917.

Effect of the constituents of alkali, fertilizers, and soil amendments on the permeability of certain fine-textured soils under irrigation.

C. W. Dotkin. New Mexico. Agricultural experiment station.
Technical bulletin no.160. State College, N. M., 1927. 61p.

Examination of some of the factors determining the hydrogen ion concentration of suspensions of Punjab soils. R. C. Hoon and E. M. Taylor. Lahore, Supt. govt. print. Punjab, 1932. 2pts.

India. Punjab irrigation research institute. Research publications. v.4, nos.1,2.

Features and water rights of Yuba river, California. Marsden Manson. U. S. Department of agriculture. Office of experiment station. Bulletin no.100. Washington, D. C., 1901. p.115-130.

Gravitational survey of the suballuvium of the Jhelum-Chenab Ravi doabs, and its application to problems of water logging. B. H. Wilsdon and N. K. Bose. Lahore, Supt. govt. print. Punjab, 1934. 44p.
India. Punjab irrigation research institute. Research publications. v.6, no.1.

Influence of precipitation on soil composition and on soil organic matter maintenance. F. J. Sievers and H. F. Holtz. Washington. Agricultural experiment station. Bulletin no.176. Pullman, Wash., 1923. 32p.

Irrigation district draining itself. R. E. Hodges. Pacific rural press. v.99. p.12. January 3, 1920.

Irrigation, drainage and alkali. E. W. Hilgard. California. Agricultural experiment station. Bulletin no.53. Berkeley, Cal., 1886. 2p.

Irrigation in relation to soil moisture and plant growth. F. J. Veihmeyer. Agricultural engineering. v.8. p.109-110. May 1927.

Irrigation means drainage or damage. R. E. Hodges. Pacific rural press. v.101. p.235. February 5, 1921.

Movement of water in irrigated soils. C. S. Scofield. Journal of agricultural research. v.27. p.617-696. March 1, 1924.
Discusses certain aspects of alkali problem in relation to irrigation farming which as a whole relates to soluble salts in soil solution.

Permeabilite du sol et irrigations. Basile Georges Ganossis. Annales agronomiques. n.s., v.1. 1931. p.686-694.

Full of gravity moves citrus soils. D. M. Rutherford. Pacific rural press. v.131. p.572. May 2, 1936.

- Relation between exchangeable sodium and crop yield in Punjab soils and a new method of characterising alkali soils. A. N. Puri. Lahore, Supt. govt. print., Punjab, 1934. 4p. India. Punjab irrigation research institute. Research publications. v.4, no.5.
- Removing seepage and alkali from irrigated lands. D. W. Murphy. Engineering news. v.90. p.749. April 26, 1923.
- Simple method for determining the reaction and titration curves of soils. Balmokand Anand and A. N. Puri. Lahore, Supt. govt. print. Punjab, 1934. 4p. India. Punjab irrigation research institute. Research publications. v.4, no.6.
- Soil deterioration in the canal irrigated areas of the Punjab. E. M. Taylor and others. Lahore, Supt. govt. print. Punjab, 1935. 2 pts. India. Punjab irrigation research institute. Research publications. v.4, no.7-8.
- Soil survey of the proposed Palouse irrigation project. H. F. Holtz. Washington. Agricultural experiment station. Bulletin no.133. Pullman, Wash., 1916. 14p.
- Soils of the rice areas of the Gujranwala and Sheikhu pura divisions of the upper Chenab canal. M. L. Mehta. Lahore, Supt. govt. print. Punjab, 1937. 25p. India. Punjab irrigation research institute. Research publications. v.3, no.2.
- Some aspects of irrigation and alkali soils. R. K. Nariman. Association of Chinese and american engineers. Journal. v.11. p.45-64. January 1930. Review of problems with special reference to conditions and results of research in irrigated provinces of India; experiments of Michel in Dasna village near Gaziabad, 1867-70; percolation losses from channels; movement of water and soluble salts in soils; alkali salts and waterlogging; lining of canals.
- Stabilization of soils by the use of bitumen emulsion. C. E. Haswell. Simla, India, Central board of irrigation, 1935. 14p. India. Central board of irrigation. Publication no.9.
- Study of alkali and plant food under irrigation and drainage. C. W. Dotkin. New Mexico. Agricultural experiment station. Bulletin no.136. State College, N. M., 1923. 44p.
- Study of the production and movement of nitric nitrogen in an irrigated soil. Robert Stewart and J. E. Greaves. Utah. Agricultural experiment station. Bulletin no.106. Logan, Utah, 1909. 69-96p.

Study of the soil profiles of the Punjab plains with reference to their natural flora. R. C. Hoon and M. L. Mehta. Lahore, Supt. govt. print. Punjab, 1937. 47p. India. Punjab irrigation research institute. Research publications. v.3, no.3.

Un des aspects du probleme de l'irrigation. J. Lemarchands. Houille blanche. v.18. p.158-163. July - August 1919. Concerning irrigation problems. Experimental researches of permeability of various soils.

Use of the antimony electrode for determining soil reaction. A. N. Puri. Lahore, Supt. govt. print. Punjab, 1932. 11p. India. Punjab irrigation research institute. Research publications. v.4, no.4.

Water penetration in the gumbo soils of the Belle Fourche reclamation project. O. R. Mathews. U. S. Department of agriculture. Department bulletin no.447. Washington, D. C., 1916. 12p.

STATISTICS.

Gezira canal. Statistics of water consumption. Sudan. Irrigation department. 1929/30 - 1930/31. Khartown, 1930-31.

Irrigation investment and growth. California cultivator. v.60. p.376. March 31, 1923.

Irrigation of agricultural lands: Arizona. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 11p.

Irrigation of agricultural lands: Arkansas. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 9p.

Irrigation of agricultural lands: California. Statistics for state and counties. Washington, D. C., Bureau of the census, 1932. 16p.

Irrigation of agricultural lands: Colorado. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 15p.

Irrigation of agricultural lands. General reports and analytical tables, reports by states with statistics for counties and a summary for the United States. Washington, D. C., Bureau of the census, 1932. 48lp.

Irrigation of agricultural lands: Idaho. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 13p.

- Irrigation of agricultural lands: Kansas. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 8p.
- Irrigation of agricultural lands: Louisiana. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 11p.
- Irrigation of agricultural lands: Montana. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 13p.
- Irrigation of agricultural lands: Nebraska. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 11p.
- Irrigation of agricultural lands: Nevada. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 11p.
- Irrigation of agricultural lands: New Mexico. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 12p.
- Irrigation of agricultural lands: North Dakota. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 8p.
- Irrigation of agricultural lands: Oklahoma. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 8p.
- Irrigation of agricultural lands: Oregon. Statistics for state and counties. Washington, D. C., Bureau of the census, 1921. 12p.
- Irrigation of agricultural lands: South Dakota. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 9p.
- Irrigation of agricultural lands: Summary for the United States 1929 and 1930. Washington, D. C., Bureau of the census, 1932. 22p.
- Irrigation of agricultural lands: Texas. Statistics for state and counties. Washington, D. C., Bureau of the census, 1932. 13p.
- Irrigation of agricultural lands: Utah. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 13p.
- Irrigation of agricultural lands: Washington. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 12p.
- Irrigation of agricultural lands: Wyoming. Statistics for state and counties. Washington, D. C., Bureau of the census, 1931. 12p.
- Review of irrigation in India for 1921-1922. Calcutta, India superintendent of government printing, 1923. 27p.

Review of irrigation in India for 1922 - 1926. Simla, India
department of industry and labour, Public works branch, 1924 - 1927.
3v.

Some financial, agricultural and engineering aspects of irrigation. Charles
Kirby Fox. Municipal and county engineering. v.56. p.30-41.
January 1919. Statistics in United States; question of trans-
portation; outlook of future development.

Statistical examination of the discharge of the Indus at Sukkur and its
relation with upstream sites. B. H. Wilsdon and R. P. Sarathy.
Lahore, Supt. govt. print. Punjab, 1929. 40p. India.
Punjab irrigation research institute. Research publication. v.1,
no.3.

Statistical examination of the sensitivity of a water table to rainfall
and irrigation. B. H. Wilsdon and R. P. Sarathy. Lahore, Supt.
govt. print. Punjab, 1927. 51p. India. Punjab
irrigation research institute. Research publications. v.1, no.1.

Statistical examination of the sensitivity of a water table to rainfall
and irrigation. B. H. Wilsdon and R. P. Sarathy. Lahore, Supt.
govt. print. Punjab, 1929. 24p. India. Punjab irrigation
research institute. Research publications. v.1, no.2.

Statistical examination of the uplift pressure data obtained from model
experiments. J. K. Malhotra and H. L. Uppal. Lahore, Supt.
govt. print. Punjab, 1935. 31p. India. Punjab irrigation
research institute. Research publications. v.1, no.5.

Statistics of irrigation, water distribution and working of distributaries
of the canals in the Punjab. Punjab. Public works department.
Irrigation branch. Lahore, 1907. 1v.

Statistics of revenue, expenditure and working of the canals in the Punjab
from the year 1887 - 1888. 4th edition. Punjab. Public works
department, Irrigation branch. Lahore, Printed at the Punjab govern-
ment press, 1914. 421p.

Statistics of revenue expenditure and working of the canals in the Punjab,
up to the year 1899-1900. Punjab. Public works department, Irrigation
branch. Lahore, "Civil and military gazette" press, 1901. 122p.

Triennial review of irrigation in India, 1921-1924. Calcutta, India
central publication branch, 1925. 43p.

STRUCTURES.

- Actuarial factors in the design of irrigation structures. H. B. Muckleston. Engineering Journal. v.5. p.192-197. April 1922. Economics and storage works; value of storage, available storage, capacity in relation to dam height and cost, storage capacity.
- Bully creek and Fairman coulee plate steel or precast concrete pipe siphons and earthwork, canal lining and highway bridge, Vale main canal, state 1974 plus 05 to station 2060 plus 58. Washington, D. C., U. S. Bureau of reclamation, 1930. 48p.
- Calculations for design of irrigation structures. Charles W. Helmick. Canadian engineer. v.33. p.422-423. November 15, 1917.
- Concrete siphons and canal linings feature irrigation system. G. W. Hitchcock. Concrete. v.41. p.13. August 1933. Features of Otis orchards irrigation district, tract of 2726 acres in Spokane valley, Washington; water is brought from Spokane river through canal and flume 3 1/2 mi. long, built at cost of \$90,000; intake siphon near intake 218 ft. long of reinforced concrete; immediate lining with concrete of ditches as soon as dug.
- Construction of main canal lining in Kittitas division, Yakima reclamation project, Washington. A. Ruettgers and A. A. Whitmore. American concrete institute. Journal. v.2. p.117-150. October 1930. Placing, by contract, of 55,000 cu.yd. of concrete in canal and tunnel lining, combination lining and flume sections, inverted siphons, culverts, turn-outs, bridges, and miscellaneous canal structures; development and use of novel construction equipment and application of more modern methods for concreting operations; lining machines.
- Construction of main canal lining on Kittitas division, Yakima reclamation project, Washington. A. Ruettgers and A. A. Whitmore. American concrete institute. Journal. v.2. p.669-674. February 1931.
- Designs for irrigation structures. Engineering and contracting. v.38. p.722-723. December 25, 1912. Present number gives plan and description of an outlet gate for the Alfred Davis reservoir of the Turlock irrigation district, in California.
- Earthwork All-American canal station 245 to station 1830. Washington, D. C., U. S. Bureau of reclamation, 1929. 19p. Specifications for earthwork and other work involved in construction of 161,500 ft. of concrete-lined irrigation canal having capacity of 15,155 sec.ft., maximum width 160 ft., maximum depth 20.6 ft.
- Earthwork and structures - Bully creek west bench lateral system. Washington, D. C., U. S. Bureau of reclamation, 1929. 24p. Specifications for earthwork and concrete structures, including canals, excavation, blasting, concrete pipes, timber bridges, uses of diatomaceous silica in concrete mixing.

- Earthwork and structures - Diversion dam - Weber-Provo diversion canal. Washington, D. C., U. S. Bureau of reclamation, 1929. 26p. Specifications for construction of concrete dam about 10 ft. high, also for ditches, flumes and minor hydraulic structures.
- Earthwork and structures, Mill Coulee canal, station 256 to station 326 and lateral enlargement and extensions. Washington, D. C., U. S. Bureau of reclamation, 1934. 28p. Schedules, specifications and drawings for construction of 7,000 ft. of irrigation canal, 12 ft. to 22ft. bottom width, including turnouts, chutes and other appurtenant structures, for Greenfields division, Sun river project, Montana.
- Earthwork and structures, Mill Coulee canal, station 326 to station 564, and laterals and sublaterals, Greenfields division, Sun river project, Montana. Washington, D.C., U. S. Bureau of reclamation, 1934. 34p. Schedules, specifications and drawings for construction of some 24,000 ft. of main canal varying in bottom width from 10 to 16 ft. and in total depth from 4 to 5.5 ft.
- Earthwork and structures, North Canal, station 2283 to station 3703, Dead Ox Flat division, Owyhee project Oregon-Idaho. Washington, D. C., Bureau of reclamation, 1934. 39p. Schedules, specifications and drawings for construction of main canal about 42,000 ft. long, having bottom width of 6 to 14 ft. and depth of 5 to 8 ft., including minor siphons and other appurtenant structures.
- Earthwork and structures - Vale main canal station. Washington, D. C., Bureau of reclamation, 1930. 27p. Specifications, schedules and drawings for earthwork and structures, Vale main canal, station 2060 to station 2450 and Bully creek east bench lateral system.
- Earthwork and structures, Vale main canal, station 2450-00. Washington, D. C., Bureau of reclamation, 1934. 35p. Schedules, specifications and drawings for construction of over 25 mi. of irrigation canals excavated in earth bottom width 3 to 6 ft., depth 1.3 to 5.6ft., including appurtenant structures, for Vale project, Oregon.
- Earthwork, tunnels, and structures, Casper canal, station 0 to station 190. Washington, D. C., U. S. Bureau of reclamation, 1934. 40p. Schedules, specifications and drawings for construction of about 10,000 ft. of earth-lined canal and over 7,000 ft. of concrete-lined 14 ft. tunnel, capacity 1,200 sec. ft., also concrete-lined flumes and siphons.
- Earthwork, tunnels, and structures - North branch canal division no.3. Washington, D. C., U. S. Bureau of reclamation, 1930. 28p. Statement of equipment; specifications for earthwork, concrete siphons, etc.; testing siphons; bridge approaches; tunnels; concrete mixing.

- Gate structures for irrigation canals. F. C. Scobey. U. S. Department of agriculture. Department bulletin no. 115. Washington, D. C., 1914. 61p.
- Head-works of the Imperial canal. C. E. Grunsky. American society of civil engineers. Transactions. v. 93. p. 262-269. 1929.
- Intake gate designed to skin Colorado river water. C. E. Grunsky and G. M. Anderson. Engineering record. v. 75. p. 432-433. March 17, 1917.
- Irrigation structures and implements. New Mexico. College of agriculture and mechanic arts. Extension division. Circular no. 92. State College, N. M., 1927. 48p.
- Irrigation works, the "Vernon Harcourt" lectures of 1910, delivered by Sir Hanbury Brown. London, Constable and co., ltd., 1910. 34p.
- Keeping down cost and head loss on siphon outlets. Engineering news record. v. 80. p. 1169. June 20, 1918.
- La mesa, Leomon grove, and Spring valley irrigation district, California. Western construction news. v. 2. p. 33-36. March 10, 1927. Construction of dam, pipe lines, flumes and siphons.
- Methods of delivering water. Oregon. Agricultural college. Extension service. Circular no. 193. Corvallis, Ore., 1922. 9p.
- Models aid in designing irrigation wasteway. W. R. Barrows and A. W. Newcomer. Civil engineering. v. 4. p. 595-598. November 1934. Tests of model of wasteway for dropping flow of 400 cu. ft. per sec., 86 ft. to Rio Grande, consisting of concrete-lined canal on 12 o/o grade checked by series of V-shaped weirs; 20 models tested in hydraulic laboratory of University of New Mexico; construction of full-scale structure.
- Note on experiments with model of head sluices of Nira left bank canal. C. C. Inglis and D. V. Joglekar. Bombay. Public works department. Technical paper no. 54. Bombay, India, 1935. 10p. Experiments with model of head regulator of Nira left bank canal to ascertain what increase of discharge could be obtained by constructing bell-mouths upstream and expansion down-stream; effect of depth of water in canal on coefficient of discharge.
- Ontwerp van en module venturimeter inlaatsluis met groot meetbereik. A. L. Verwoerd. Waterstaats ingenieur. v. 18. p. 102-108. April 1930. Design of venturi-meter module headgate having great measuring range. Theory and details of design of reinforced-concrete canal headgate structure consisting of modified twin Venturi tube 2.45 m. long, sluice gate, etc.

- Plans of structures in use on irrigation canals in the U. S. From drawings exhibited by the Office of experiment stations at Paris in 1900 and at Buffalo in 1901. U. S. Department of agriculture. Office of experiment stations. Bulletin no.131. Washington, D. C., 1903. 51p.
- Practical design of irrigation works. W. G. Blight. New York, D. van Nostrand company, 1910. 449p.
- Precast concrete slabs for small irrigation structures; type of irrigation structure built of concrete lumber. R. W. Olmsted. Engineering news record. v.84. p.1167-1168. June 10, 1920.
- Prevention of silting in irrigation canals. R. G. Kennedy. Lahore, Supt. govt. print. Punjab, 1896. 30p. India. Punjab. Public works department. Irrigation branch. Paper no.7.
- Problem of silt control at the head works of the Sirhind canal at Rupar. F. W. Woods. Lahore, Supt. govt. print. Punjab, 1921. 38p. India. Punjab. Public works department. Irrigation branch. Paper no.21.
- Probleme des wasserbauens in bodenseebereich. F. Nesper. Verein deutscher ingenieure. v.71. p.108-113. 1933. Review of special hydraulic problems of Lake of Constance region, in Germany, regulation of Rhine river and other inland waters for navigation and flood control; drainage of Rhine valley; development of hydroelectric power resources of upper Rhine; regulation of Lake of Constance.
- Punjab practice in silt observations. E. M. Taylor. Lahore, Supt. govt. print. Punjab, 1936. 13p. India. Punjab. irrigation research institute. Research publication. v.2, no.15.
- Results of some hydraulic investigations made at headworks of Malaya-Kabarda irrigation system. A. F. Bourkov. Izvestiya nauchno-issledovatel'skovo instituta hidrotehniki. v.5. p.150-170. March-April 1932. Study of silt conditions in Caucasian irrigation system, also discharge of spillway dam 288.5 m. long; discharge tests and formulas for flow through hydraulic gates of orifice type, including orifices of oblong shape and operation under submerged conditions. In Russian with brief english abstract.
- Silting operations. A. G. Reid and others. Lahore, Supt. govt. print. Punjab, 1894. 43p. India. Punjab. Public works department. Irrigation branch. Paper no.5.

Siphons and tunnel, Furnish canal and earthwork and structures for drain no.1 Stanfield project, Oregon. Washington, D. C., U. S. Bureau of reclamation, 1934. 30p. Specifications for construction of three monolithic reinforced-concrete siphons and tunnel on Furnish canal and earthwork and structures on drain no.1, Stanfield project, Oregon.

Standardized appliances for irrigation structures. J. L. Savage. Engineering news record. v.89. p.923-926. November 30, 1922. Designs for gates, lifts, hoists, radial gates, stems, couplings and guides as standardized by U. S. Reclamation service.

Structures, North canal, station 513 to station 2051 and Mitchell Butte lateral, Owyhee project, Oregon-Idaho. Washington, D. C., U. S. Bureau of reclamation, 1934. 31p. Specifications for construction of two wasteways, eight siphons, two weirs, siphon spillway and chute drop structure.

Treated lumber for irrigation structures. L. M. Grant. Civil engineering. v.1. p.1090-1091. September 1931. Pressure creosoted material shows economy in western engineering practice; 12-ft. creosoted, semi-circular flume found economical in spite of era cost; use of treated lumber for construction of woodstave pipes and siphons.

Treated lumber for irrigation structures. L. M. Grant. Civil engineering. v.2. p.36, 39-40. January 1932.

TABLES; CALCULATIONS; ETC.

Agriculture and irrigation in continental and tropical climates. Kinsley D. Doyle. London, Constable and company, ltd., 1921. 268p.

American irrigation farming; a systematic and practical treatment of every phase of irrigation farming, including its history, with statistical tables and formulas. W. H. Olin. Chicago, A. C. McClurg and co., 1913. 364p.

Complete text-book of farm engineering, comprising practical treatises on draining and embanking; irrigation and water supply; farm roads, fences, and gates; farm buildings; barn implements and machines; field implements and machines; and agricultural surveying. John Scott. London, C. Lockwood and co., 1885. 7v. in 1.

Discharge of irrigation siphons in California. L. S. Hall. Engineering news. v.93. p.1024-1025. December 25, 1924.

Evaporation on United States reclamation projects. I. E. Houk. American society of civil engineers. Transactions. v.90. p.266-378. 1927.

Facts, figures and formulae for irrigation engineers; being a series of notes on miscellaneous subjects connected with irrigation. Robert Burton Buckley. London, E. & F. N. Spon, ltd., 1908. 239p.

Irrigation manual, containing useful information and tables, appertaining to irrigation by artesian waters, in the states of North and South Dakota, together with many tables, rules and items of miscellaneous information, of value to farmers and business men. W. P. Butler. Huron, S. D., Huronite printing house, 1892. 252p.

Irrigation pocket book; or, facts, figures, and formulae for irrigation engineers, being a series of notes on miscellaneous subjects connected with irrigation. Robert Burton Buckley. New York, Spon and Chamberlain, 1913. 483p.

Nomograms for hydraulic and other calculation occurring in irrigation work. Punjab. Irrigation branch. Roorkee, Printed at the Thomason college press, 1927. 27p.

Practical irrigation, its value and cost; with tables of comparative cost, relative soil production, reservoir dimensions and capacities and other data of value to the practical farmer. Aug. J. Bowie, jr. New York, McGraw publishing co., 1908. 232p.

TERMINOLOGY.

Duty of water - a relic of early irrigation terminology. W. P. Alexander. Planter. v.80. p.343-345. May 5, 1928.

Glossary of technical and vernacular terms in connection with irrigation in India, together with standard notations. Simla, India, 1934. 29p. India. Central board of irrigation. Publication no.5.

Standard symbols and glossary for hydraulics and irrigation. American society of civil engineers. Proceedings. v.58. p.729-755. 1932.

WATER CONVEYANCE.

Canals.

All-American and Coachella canals. Western construction news. v.7 p.127-134. March 10, 1932. Report on preliminary studies of U. S. Bureau of reclamation of diversion dam and desilting works on Colorado river and 80 mi. main canal and 130 mi. branch canal to irrigate over 1,000,000 acres in southern California; estimated cost for this unit of Boulder canyon project is \$34,000,000; canals requiring 60,000,000 to 65,000,000 cu.yd. of excavation.

- All-American canal. H. J. Gault. Military engineer. v.25. p.379-382. September-October 1933. General plan of irrigation canal project to be developed in connection with Boulder canyon project, for irrigation of Imperial, East Mesa, West Mesa, and Coachella valleys in southeastern California, totaling 1,000,000 acres; passing cross drainage; exclusion of sand and silt.
- All-American canal project started on 30-mile section. Engineering news record. v.113. p.488-489. October 18, 1934. Contracts totaling \$5,000,000 under way, involving 40,000,000 cu.yd. of excavation; canal to convey water from Colorado river to Imperial and Coachella valleys in southern California for irrigation.
- All-American imperial canal bill. Pacific rural press. v.99. p.116. January 24, 1920.
- Ancient Chaldean irrigation. Scientific american supplement. v.56. p.23358-23359. December 12, 1902.
- Bottom recession in Alamo canal. G. G. Sykes. Engineering news. v.97. p.69. July 8, 1926.
- Boulder canyon project a fully-planned development. Engineering news record. v.113. p.688-689. November 29, 1934.
- Boulder dam and all American canal. J. M. Chesebrough. California cultivator. v.64. p.383. April 4, 1925.
- Brick canal lining in Colombia; with cost data. E. M. Crawford. Engineering news record. v.114. p.567. April 18, 1935.
- Brick lining used for irrigation canal in Texas. W. I. Gilson. Engineering news record. v.113. p.246-247. August 23, 1934. Results obtained from brick lining of experimental 500-ft. section of irrigation canal on distribution system of Water improvement district no.6, Los Fresnos, Tex., indicating advantages of low cost, inexpensive equipment, minimum of skilled labor required and satisfactory hydraulic properties.
- Building high-head siphons on the Yakima project. Engineering news record. v.103. p.763-765. November 14, 1929.
- Butte county canal, Sacramento valley, California. San Francisco, Cal., Publicity committee, National irrigation congress, 1906. 15p. National irrigation congress. Publicity series. Bulletin no.1.
- Calcolo dei canali d'irrigazione. G. Supino. Ingegneri. v.3. p.409-414. July 1929. Irrigation canal computations. Derivation of formulas and construction of tables and diagrams for numerical design of drainage and irrigation ditches.

Calcolo dei canali d'irrigazione. G. Supino. Ingegnere. v.6.
p.180-181. March 1932. Discussion.

California's Friant project; with cost data. Engineering news record.
v.117. p.89. July 16, 1936.

Canal and drain construction at Vale, Oregon. W. A. Scott. Engineering
world. v.32. p.18-19. January 1928. U. S.
Bureau of reclamation has in progress important irrigation canal con-
struction and drainage work on Malheur river, in vicinity of Vale, Ore.;
main canal for Vale project about 70 miles long; also, open drains
leading into Malheur river, involving excavation of about 2,000,000
cu. yds.; depths of drains varying from 8 to 12 ft.

Canal-bank maintenance by disking on Imperial irrigation district. M. J.
Dowd. Engineering news record. v.108. p.206-207.
February 11, 1932. Development of machine operations for removal
of plant growth on ditch banks; tractor-drawn disk supplants hand-
cutting of brush and bamboo on 2600 mi. of ditch; cost cut in half
and results more effective; unit completes 25 mi. per month.

Canal construction by Bureau of reclamation. G. O. Sanford. Reclamation
era. v.23. p.7-9. January 1932. Information on
principal canals built by U. S. Reclamation service.

Canal construction through lava plains. E. B. Darlington. Explosives
engineer. v.9. p.214-215. June 1931. Drilling
and blasting operations on 60-mi. canal under construction to supple-
ment water supply of present Gooding project and to make water avail-
able to 36,000 acres of new land; work began on Milner-Gooding canal,
and will not be finished until late in 1931.

Canal del Henares y su rehabilitacion. E. Chaves. Ingenieria y
construction. v.9. p.599-603. October 1931.
Henares canal and its rehabilitation. Data on repair and recon-
struction of canal in province of Guadalajara.

Canal del Melado - Memoria del anyo 1926. C. Delpiano. Anales del
instituto de ingenieros de Chile. v.29. p.238-244.
June 1929. Melado canal - 1926 report. Notes on preliminary
study and final planning of project; irrigation zones and water allot-
ment; technical data on construction progress; influence of transpor-
tation on cost; hydro-electric plant to drive air compressors for
tunnel; total of \$19,792,000 expended for three construction contracts;
derivation canals will cost \$5,500,000 Chilean currency.

Canal excavation on the Sukkur barrage project. Excavating engineer.
v.23. p.477-484, 489. November 1929. Information on
Sukkur barrage project in basin of lower course of Indus river,
commanding irrigable area of 6,500,000 acres comprising 1600 mi. of
main canal and 4622 mi. of tributaries; how 35 Bucyrus-Erie and 11
Ruston and Hornsby dragline handled 120,000,000 cu. yd. of canal
excavation.

- Canal irrigation in the Punjab; economic inquiry relating to certain aspects of the development of canal irrigation by the British in the Punjab. Paul W. Paustian. New York, Columbia university press, 1930. 179p.
- Canal lining, tunnel no.4, and structures, North canal station O (Tunnel canyon) to station 512 (Mitchell Butte). Washington, D. C., U. S. Bureau of reclamation, 1933. 31p. Specifications, schedules and drawings.
- Canal seepage losses are affected by temperature. L. Crandall. Engineering news record. v.82. p.323-324. February 13, 1919.
- Canal system used alternately to irrigate and drain. Engineering news record. v.82. p.928-929. May 8, 1919.
- Canal that grows crops in a barren country; King Hill irrigation project in the Snake river valley. Scientific american. v.129. p.33. July 1923.
- Canale emiliano (progetto Certani) appunti e considerazioni dell'ingegnere A. Tacchini (con piano generale ed il profilo del canale.) Bologna, N. Zanichelli, 1885. 64p.
- Canals and irrigation in foreign countries. Washington, D. C., Government printing office, 1891. 501p. Reports from the consuls of the United States in answer to circulars from the Department of state.
- Canaux desservant a la fois les besoins de la navigation et ceux de l'agriculture. Genie civil. v.100. p.134-135. February 6, 1932.
- Carrying capacities of irrigation canals. Samuel Fortier. Utah. Agricultural experiment station. Bulletin no.71. Logan, Utah, 1900. 55p.
- Cement linings in irrigation canals economic success; experience with Imperial valley system. Engineering news. v.99. p.144-145. July 28, 1927.
- Charts for design of irrigation channels. F. A. Nevill. Commonwealth engineer. v.19. p.239-242. February 1, 1932. Diagrams of discharge of concrete-lined and earthen channels.
- Cinque anni di provveditorato alle opera pubbliche per la Calabria. O. Lepore. Ingegnere. v.6. p.99-113. February 1932. Review of 5 years of public-works construction in Province of Calabria, including concrete arch highway bridges, with single spans up to 96 m in length; also high retaining walls, control works for mountain torrents, irrigation and drainage canals, reforestation work, malaria control, etc; expenditure is over 600,000,000 lire.

- Cleaning irrigation canals with modified disk harrows. Hugh L. Crawford. Engineering and contracting. v.57. p.357-358. April 12, 1922. Experiences in removing aquatic plant growths from canals of Minidoka project of U. S. Reclamation service with modified disk harrows.
- Colorado river desilting at Imperial dam. Engineering news record. v.115. p.538-541. October 17, 1935. Removal of 60,000 tons of silt per day by circular scrapers will save \$1,000,000 annually in cleaning charges on All-American canal; design based on extensive silt subsidence research and on model studies of various dam structures; operation of desilting basins; roller gates for flow control; novel design of influent channel.
- Completion report and schedules Chenab cana. Punjab. Public works department. Irrigation branch. Lahore, Punjab government press, 1904. 87p.
- Completion report and schedules, Sirhind canal, 1893. Punjab. Public works department. Irrigation branch. Lahore, "C & M. Gazette" press, 1893. 62p.
- Completion report on the remodeling of the Ganges canal. F. V. Corbett. Roorkee, Printed at the Thomason civil engineering college press, 1894. 80p.
- Concrete a water conserver. W. R. Wood. California cultivator. v.60. p.438. April 14, 1923.
- Concrete canal becomes a driveway. Scientific american. v.121. p.313. September 27, 1919.
- Concrete chute in an irrigation canal. M. Nikolitch. Engineering record. v.61. p.557. April 23, 1910. Brief illustrated description of a chute and other canal works in the Imperial valley.
- Concrete irrigation furrows. E. J. Van Meerten. Farming in South Africa. v.5. p.121. June 1930.
- Concrete-lined canals built in large irrigation project. Concrete. v.35. p.19-20. October 1929. Construction methods used in placing concrete lining in 22 mi. of irrigation canals on U. S. Reclamation bureau job.
- Concrete lined irrigation canals. Concrete. v.16. p.244-246. May 1920. Methods and costs on reclamation service work.
- Concrete lining as applied to irrigation canals. S. Fortier. U. S. Department of agriculture. Department bulletin no.126. Washington, D. C., 1914. 86p.

- Concrete lining for irrigation canals in Texas. A. J. Moore. Engineering news record. v.107. p.60-61. July 9, 1931.
Report on field practice in lining of 259 mi. of canals and lateral ditches in irrigation districts in Hidalgo and Cameron counties, Texas; cost per mile approximately \$4500 for ditch of average size of 15 to 20 sec.ft. capacity.
- Concrete linings for irrigation canals. Chicago, Ill., Portland cement association, 1916. 15p.
- Concrete siphons and canal linings feature irrigation system; Otis orchards irrigation district, Washington. G.W. Hitchcock. Concrete. v.41. , p.13. August 1933.
- Concrete siphons for irrigation ditches. Concrete. v.9. p.209. December 1916.
- Contributo alle ricerche sul trasporto di materie solide in un canale derivato da fiume tenuto. H. Visentini. Annali dei lavori pubblici. v.72. p.85-90. February 1934. Observations on distribution of turbidity in Parmigiana-Moglia irrigation canal diverting surface water of Po river; observation extended for distance of 2.6 km. from point of diversion.
- Conveyance losses of water on U. S. Reclamation service irrigation projects. E. A. Moritz. Engineering and contracting. v.55. p.470-471. May 11, 1921.
- Conveyance of water in irrigation canals, flumes, and pipes. Samuel Fortier. Washington, D.C., 1901. 86p. U.S. Geological survey. Water supply and irrigation paper no.43.
- Construction of concrete lined irrigation canals. W. E. Code. Engineering and contracting. v.61. p.1314-1316. June 11, 1924. Methods and costs on two jobs in Arizona.
- Construction of irrigation canal systems from an operation standpoint. P. M. Fogg. Western engineering. v.2. p.442-444. June 1913. Calls attention to features deserving attention during the construction.
- Construction of main canal lining on Kittitas division, Yakima reclamation project, Washington. A. Rustgers and A. A. Whitmore. American concrete institute. Journal. v.2. p.117-150, 669-674. October 1930, February 1931.
- Construction work on a federal reclamation project; Kittitas division of the Yakima project, in the state of Washington. American society of civil engineers. Transactions. v.57. p.1219-1264, 1591-1592. October, December 1931. v.58. p.127-129, 641-644, 790-792, 1213-1216. January, April, May, September 1932.

- Cost of earthwork in lower Egypt. Engineer. v.111. p.609-610.
June 16, 1911. Explains conditions which cause silt to
accumulate in the irrigation canals, and the methods and cost of
removing it.
- Cost of U. S. Reclamation works. Engineering record. v.61.
p.767-769. June 11, 1910. Statement before the House
committee on irrigation by Director F. H. Newell of the U. S. Re-
clamation service.
- Costo de la administracion y conservacion de los sistemas de riego. C. A.
Volpi. Ingenieria. v.39. p.508-513. August 1935.
Cost of administration and maintenance of irrigation systems in
Argentina; data for various provinces and ditch systems; National
administration; costs, by states, in United States, submitted for
comparison.
- Costs of mortar lining on irrigation canals. Herbert D. Newell.
Engineering news. v.68. p.651-653. October 10, 1912.
Statement of the methods used, cost of the work, and results obtained.
- Depth of water in irrigation canals. C. E. Grunsly. Engineering
news. v.60. p.285-288. September 10, 1908.
Comments on types of irrigation canals and related matters, ad-
vocating the broad shallow type when not prohibited by conditions.
- Description of the canals, reservoirs and franchises of the Santa Fe
irrigation company, of Santa Fe, New Mexico. Santa Fe, N. M.,
New Mexican printing company, 1891. 15p.
- Design and construction of Sarda canal. B. D. Darley. Institution
of civil engineers. Minutes of proceedings. v.233. p.140-
198. 1931. Recently completed irrigation canal system in
northern India, commanding area of more than 6,000,000 acres, and
including 425 mi. of main canal and large branches and 3500 mi. of
smaller distributaries; 1700 mi. of drains; total cost will be
\$7,000,000.
- Design and construction of Sarda canal. P. Deo. Indian engineering.
v.91. p.112-115, 130-132. February 6, 13, 1932.
- Design and construction of small, concrete-lined canals. W. E. Code.
Arizona. Agricultural experiment station. Bulletin no.97.
Tucson, Ariz., 1923. 37p.
- Design and construction of small irrigation canals. W. L. Strange.
Pretoria, Printed at the Government printing and stationery office,
1905. 75p. Transvaal. Department of irrigation and
water supply. Bulletin no.2.

- Design of channels for irrigation or drainage, being a statement of the various formulae in use and a guide to the practical application of them. Robert Burton Duckley. New York, Spon and Chamberlain, 1911. 53p.
- Design of monolithic concrete siphons simplified by use of diagrams; U. S. Bureau of reclamation irrigation canals. J. J. Doland. Engineering news record. v.104. p.1047-1052. June 26, 1930.
- Details of the All-American canal. Pacific rural press. v.123. p.399. April 30, 1932.
- Diagram to aid the location of small irrigation canals. Paul McGeehan. Engineering news. v.55. p.119-120. February 1, 1906. Gives diagram and table that have been used for paying the grade lines on the smaller irrigating ditches of the Klamath project of the U. S. Reclamation service.
- Dimensions of irrigation canals graphically determined. P. Baumann. Canadian engineer. v.45. p.137-138. July 11, 1922. Value of graphical methods for practical proportioning; slope and required discharge being known, area, depth of water required and velocity readily found.
- Dissipation of energy below falls. C. C. Inglis and D. V. Joglekar. Bombay. Public works department. Technical paper no.44. Bombay, India, 1933. 97p. Tests of outdoor hydraulic laboratory; energy dissipated more effectively with baffle added than by plain standing wave; design of side walls of baffle flume fall; other methods of dissipating energy; smoothing out surface pulsations; redistribution of velocities; deflectors and dentated sills; protecting bed and sides below falls; scour below flumed falls.
- Distribution of irrigation water from canals in the Yakima valley, Washington. S. O. Jayne. Engineering news. v.58. p.503-504. November 7, 1907. Information from Bulletin 188, U. S. Department of agriculture, describing the work.
- Distribution of silt by canal irrigation. P. Claxton. Indian engineering. v.84. p.262-265. November 10, 1928. Importance of distribution of silt inland; writer has outlined system which would combine canals with flood embankments in greater economy and which would also give distribution of silt inland much greater effect; diagram outlines trunk canal system of irrigation; construction of groynes; summarizes points of trunk canal system assisted by groynes so far as these contribute to distribution of silt inland.

- Diversified blasting methods required in irrigation project. T. R. Jacobi. Explosives engineer. v.9. p.358-361. October 1931.
- Divisors for the measurement of irrigation water. V. M. Cone. Colorado. Agricultural experiment station. Bulletin no.228. Fort Collins, Colo., 1917. 52p.
- Dragline excavator practice in Central Asia irrigation works. V. P. Ossadchiy. Vestnik irrigatziyi. nos. 5 and 6. p.28-56, 40-58. May and June 1929. Detailed report including cost data on operating experience with three types of excavators: Bucyrus no.14, and Bucyrus no.7 and Monighan. In Russian.
- Dragline operation on canal. Engineering and contracting. v.64. p.671. September 16, 1925.
- Draglines excavate large irrigation canal, Minidoka project, Idaho. Engineering news record. v.106. p.813-816. May 14, 1931. Report on construction of irrigation canal, partly lined having bottom widths of 25 to 50 ft., depths from 12.5 to 15.33 ft.; more than 62,000,000 cu. yd. of excavation, including 20 per cent hard lava rock, successfully handled by draglines; traveling bridge speeds drilling in canal bottom; sealing canal in rock.
- Drainage works of the Rio Grande irrigation project. J. L. Burkholder. Engineering news record. v.83. p.543-549. September 18, 1919.
- Drilling and blasting operations, Milner-Gooding canal, Idaho. E. B. Darlington. New reclamation era. v.22. p.6-8. January 1931. Use of explosives in blasting on Milner-Gooding main canal, Gooding division, Minidoka project; large number of charges fired simultaneously, as many as 3140 loaded holes in one blast; unusual types of drilling equipment used; use of caterpillar tractor.
- Duty of water in terms of canal capacity; need for a joint engineering, agricultural, and economic study. E. B. Dobler. Civil engineering. v.2. p.546-548. September 1932.
- Earth lining of main canal, Vale project, Oregon. C. C. Ketchum. New reclamation era. v.22. p.270-271. December 1931. Processes and results of lining of irrigation canal 70 mi. total length.
- Earth lining prevents seepage in porous shale. J. H. Miner. Engineering record. v.75. p.108-109. January 20, 1917.
- Earthwork All-American canal. Washington, D. C., Bureau of reclamation, 1933. 12p. Specifications, schedules and drawings of earthwork, All-American canal station 1130 to station 1860, Boulder canyon project, Arizona-California-Nevada; project involves over 20,000,000 cu.yd. of common excavation and 484,000 cu.yd. of solid rock excavation.

Earthwork, canal lining, tunnel and structures north branch canal, division no.2. Washington, D. C., Bureau of reclamation, 1929. 36p. Schedules, specifications and drawings for Yakima project, Washington, Kittitas division.

Earthwork concrete lining, and structures North canal station 513 to station 2051 and Mitchell Butte lateral Owyhee project, Oregon-Idaho, Mitchell Butte division. Washington, D. C., Bureau of reclamation, 1933. 39p. Specifications and drawings for earthwork and structures (except siphons) from station 513 to station 2051 (Malheur river siphon) on North canal, and Mitchell Butte lateral from station 0 to station 608 (except siphons, weirs, and concrete drop at station 89).

Earthwork, tunnels, and structures, South canal, station 2 to station 736. Succor creek division, Owyhee project, Oregon-Idaho. Washington, D. C., Bureau of reclamation, 1934. 45p. Schedules, specifications and drawings for construction of 73,400 ft. of lined and unlined earth canal having bottom widths of 14 to 16 ft. and water depth of 7 ft. including appurtenant structures.

Economic bed fall of canals. N. S. Joshi. Bombay engineering congress. Paper. v.20. p.37-46. December 1931. Theoretical discussion leading to revision of formulas for selection of most economic slope of bottom of irrigation canals.

Economic canal location in uniform countries. Lyman E. Bishop. American society of civil engineers. Transactions. v.74. p.179-205. 1911. Explains the method developed during extensive work in the field location of canals and laterals.

Effect of berms on flow in Alamo canal. G. G. Sypes. Engineering news. v.95. p.433. September 10, 1925.

Effect of different linings on seepage from irrigation ditches. California cultivator. v.58. p.65. January 21, 1922.

Effect of silt conduction by outlets on regime of channel. K. R. Sharma. Indian engineering. v.92. p.315-316, 335-336, 356-357, 374-376. October 15, 22, 29, November 5, 1932. Theoretical mathematical study of part played by outlets in increasing or decreasing proportion of silt charge in supply of channel; effect of these changes in designing regime section for it; effect of outlets on grade of silt; mathematical computations; examples illustrating use of formula.

Electric control speeds up ditch cleaning. M. M. McIntire. Electrical world. v.96. p.179-180. July 26, 1930. Imperial valley, Calif., taking water from Colorado river, is faced with removal of silt from more than 3,000 mi. of canals; bucket line de-silters have been tried out on laterals, but due to mechanical complications it was not until irrigation district designed and built machine of its own that satisfactory operation was accomplished.

- Enlargement of the Yakima-Tieton main canal. G. C. Finley. Engineer-
ing news record. v.82. p.1255-1258. June 26, 1919.
- Excavator performance on Yanghi-Arik. I. N. Kostrov. Vestnik
irrigatziyi. no.6. p.76-88. June 1930. Excavation
practice on irrigation project in Russian Turkistan involving ex-
cavation of over 800,000 cu.m., with special reference to performance
of Bucyrus steam shovel type 70-C. In Russian.
- Exclusion of silt from irrigation works; new type of headworks proposed
for irrigation canals. F. V. Elsdon. Engineering and contracting.
v.58. p.28-31. November 29, 1922.
- Experience in cleaning irrigation ditches by machine. G. Ebner.
Engineering news record. v.107. p.172. July 30, 1931.
Cost of cleaning irrigation canals of Valier irrigation project in
north-central Montana; 100 to 115 mi. per year cleaned without
stopping operation, at cost of less than \$100 per mile.
- Experiments in the use of current meters in irrigation canals. S. T.
Harding. Journal of agricultural research. v.5. p.217-232.
November 8, 1915.
- Explosives and draglines excavate Kittitas canal in central Washington.
Engineering and contracting. v.69. p.211-212. May 1930.
- Factors affecting exclusion of bed silt from canals taking off from
alluvial rivers. C. C. Inglis and D. V. Joglekar. Bombay.
Public works department. Technical paper no.52. Bombay, India,
1935. 31p. Experiments carried out between 1927 and 1930
at Hydro-dynamic research station of Bombay public works department,
near Poona, to determine factors affecting movement of bed silt at
offtakes from straight river; "resultant" theory; Gibb's theory of
"silt draw"; silt exclusion with curved vanes; effects of divide wall.
- Farm irrigation ditches, tools and structures. M. R. Kulp. Idaho.
University. Extension division. Circular no.48. Boise, Idaho,
1934. 22p.
- Field work in locating irrigation ditch and canal lines. Albert D.
Bartlett. Engineering news. v.63. p.610-611. May 26,
1910. Describes methods used in the design of irrigating
systems.
- Flow of water in irrigation channels. Fred C. Scobey. U. S.
Department of agriculture. Department bulletin no.194.
Washington, D. C., 1915. 68p.
- Flowing water. J. M. Lacey. Engineer. v.152. p.3-5.,
481-482, 508-509. v.153. p.604-606. July 3,
November 6-13, 1931. June 3, 1932.

- Gas-electric ditch cleaner. M. M. McIntire. Motive power. v.1.
p.26-27. October 1930. Equipment and methods employed by
Imperial irrigation district of California in cleaning irrigation canals.
- Gate structures for irrigation canals. Fred C. Scobey. U. S. Depart-
ment of agriculture. Department bulletin no. 115. Washington, D.C.,
1914. 61p.
- Ganges canal. P. T. Cautley. Roorkee, C. E. C. press, 1854. 40p.
- Ganges canal. Disquisition on the heads of the Ganges and Jumna canals,
Northwestern provinces, in reply to strictures by Major General Sir
Arthur Cotton. P. T. Cautley. London, Printed for private
circulation, 1864. 104p.
- Gibb's module for irrigation canals. Punjab. Public works department
Paper no.A-13. Punjab, India, 1929. 15p. Theory,
design and operation of irrigation water-measuring apparatus con-
sisting of semi-circular flat-bottomed, steel trough, which is to
provide means of automatically regulating supply from canal, in such
way that under all ordinary variations of water level and conditions
of flow in parent and branch channels discharge given shall remain con-
stant and of specified amount; influence of ratio of outer to inner
radius of trough; effect of retardation or loss of head in trough;
form and spacing of diaphragms.
- Government irrigation in the Yakima watershed - the Tieton Canyon canal.
Day Allen Willey. Scientific american. v.102. p.320-321.
April 16, 1910. Brief illustrated description of the Tieton project,
and the difficulties encountered.
- Grading of irrigation furrows. R. H. M. Jackes. Farming in South
Africa. v.1. p.414. February 1927.
- Graduated slope gage and movable stilling box for canal measurements.
W. G. Steward. Engineering and contracting. v.50.
p.543-544. December 11, 1913.
- Graphical method for design of open canals of trapezoidal cross section.
A. L. Yevfaritsky. Vestnik irrigatziyi. no.6. p.32-39.
June 1929. Construction of original curves and graphical charts;
numerical examples illustrating their use. In Russian.
- Head-works of the Imperial canal. C. E. Grunsky. American society of
civil engineers. Transactions. v.54. p.2103-2105.
September 1928.
- History of lower Jhelum canal headworks at Rasul. Punjab. Public
works department. Irrigation branch. Lahore, 1927. 21p.

History of Mangla head regulator, upper Jhelum canal. Punjab. Public works department. Irrigation branch. Lahore, 1923-28. 68p.

History of Rupar headworks, Sirhind canal, 1874-1924 ... Punjab. Public works department. Irrigation branch. Lahore, 1926. 63p.

History of the Khanki headworks, lower Chenab canal. Punjab. Public works department. Irrigation branch. Lahore, 1926. 64p.

History of the upper Chenab canal head works at Marala. Punjab. Public works department. Irrigation branch. Lahore, 1922. 13p.

Horse-drawn fresnos construct large canal as a relief project; branch of the All-American canal. Engineering news record. v.114. p.422-423. March 21, 1935.

How the Imperial irrigation district meets its problem of silt deposition and erosion. M. J. Dowd. Engineering and contracting. v.69. p.436-438. December 1930.

Huge irrigation project in Texas embodies many unique features. A. Callan. Manufacturers record. v.98. p.48-50. September 4, 1930.

Hydraulic design of canal transitions. A. A. Korolev. Izvestiya nauchno-issledovatel'skovo instituta hydro-tekhniki. no.15. p.148-156. 1935. Method of design based on theory proposed by Julian Hinds outlined in article from American society of civil engineers, Proceedings 1928; numerical examples. In Russian, with brief English abstract.

Hydraulic diagrams for the discharge of conduits and canals; based upon the formula of Gangiullet and Kutter. Charles H. Swan and Theodore Horton. New York, Engineering news publishing company, 1899. 43p.

Hydraulic fill in the Turlock irrigation district canal. A. Kempkey, jr. Engineering record. v.62. p.492-493. October 29, 1910. Illustrated detailed description of the replacing of the "Peaslee gulch" flume with a permanent structure.

Hydraulics and design of open earthen channels, with note on distribution of water. R. K. Khanna. Lahore, India, Mercantile press, 1933. 20p. Re-statement of methods of design of irrigation canals in earth taking into account silting and scouring; action of water in open earthen channels; causes of silting and scouring.

- Hydraulique agricole. Applications. Des canaux d'irrigation de l'Italie septentrionale envisages sous les divers points de vue de la science hydraulique de la production agricole et de la legislation. Benjamin Nadault de Buffon. 2d edition. Paris, Dunod, 1861-62. 2v.
- Improved method of irrigation canal maintenance. C. J. Gronland. Agricultural engineering. v.14. p.7-8. January 1933. Review of ordinary maintenance practice and outline of tested plans for use of tractor and grader equipment for control of weeds, widening of cross-section and maintenance of slopes.
- Improved transition adds to flume capacity; Agua Fria river flume of Roosevelt irrigation district. J. A. Fraps. Engineering news record. v.111. p.110-112. July 27, 1933.
- Improved type of flumed fall. T. Blench. Indian engineering. v.96. p.135-139. August 18, 1934. Method of design; principle of divergence; collapse and spread of jet emerging from throat into horizontal floor; position of standing wave and water profile of flume; advantages of design embodying principle of divergence; friction losses.
- Indian irrigation problems; inundation and perennial canals. F. W. Woods. London times trade supplement. v.12. p.111. April 14, 1923.
- Instructions to water-masters. Irrigation age. v.32. p.25. December 1916.
- Inverted concrete siphons designed for irrigation projects. G. D. Hall. Concrete. v.39. p.35-36. July 1931.
- Irrigation. H. C. Campbell. Farm engineering. v.4. p.27. August 1916.
- Irrigation and power combined by Texas improvement district. Engineering news record. v.109. p.153-157. August 11, 1932. Combined irrigation and hydroelectric development in Rio Grande basin, near Eagle Pass, Tex., involving construction of 32 mi. of gunite and redwood-lined canals; canal is partly in earth cut, having maximum depth of 55 ft., and partly in sidchill rock cuts; canal excavating operation; removal of rock in bottom of earth cuts; lateral canals.
- Irrigation canal and drainage ditch crossings in the Imperial valley. J. F. Lamb. Hydraulic engineering. v.5. p.35-36. October 1929. Illustrated examples from author's practical experience.

- Irrigation canal falls. India. Central board of irrigation.
Publication no.10. Simla, India, 1935. 63p.
Theory of drops on irrigation canals; classification of falls;
filling-basin element; filling-basins for impact by "vertical"
stream and horizontal stream; filling-basins for impact by stream
flowing down inclined glacis; filling-basins in which there is no
impact; deflector; formulas for depth of filling-basins; design of
flumed falls with glacis, baffles and deflectors.
- Irrigation canal structures. R. H. Roberts. Rhodesia agricultural
journal. v.28. p.249-261. March 1931.
- Irrigation canals. P. H. Haviland. Rhodesia agricultural journal.
v.25. p.78-89. January 1928.
- Irrigation canals. A. C. Jennings. Rhodesia agricultural journal.
v.19. p.187-194. April 1922.
- Irrigation canals and other irrigation works, including the flow of
water in irrigation canals and open and closed channels generally,
with tables simplifying and facilitating the application of the
formulae of Kutter, D'Arcy and Bazin. P. J. Flynn. San
Francisco, Cal., G. Spaulding and co., printers, 1892. 398,283p.
- Irrigation canals kept open by odd dredge. E. L. Poor. Popular
mechanics. v.35. p.93. January 1920.
- Irrigation canals, Texas; unit prices. Engineering news record.
v.116. p.268. February 13, 1936.
- Irrigation distribution channels. H. F. Byham. Commonwealth engineer.
v.19. p.311-313. April 1, 1932. Chart for
use in designing and estimating, cross-section areas, cubical contents,
etc., of earthen channels.
- Irrigation in southern Europe: being the report of a tour of inspection
of the irrigation works of France, Spain, and Italy, undertaken in
1867-68, for the government of India. C. C. Scott Moncrieff.
London, E. & F. N. Spon, 1868. 371p.
- Irrigation works, the principles on which their design and working should
be based, with special details relating to Indian canals and some
proposed improvements. E. S. Bellasis. London, E. & F. N. Spon
ltd., 1913. 195p.
- Irrigations et adductions d'eau. 1.- Etudes et projets. 2.- Ex-
ecutions des travaux. Canaux et rigoles de distribution demontables
en ciment arme. E. Perreau and G. Peyre. Paris, Impr. F.
Ougeot, 1917. 14p.

- Italian irrigation; a report on the agricultural canals of Piedmont and Lombardy. R. Baird Smith. London, W. H. Allen and co., 1852. 2v.
- Keeping irrigation ditches clear. Scientific american. v.127. p.305. November 1922.
- Kom-Onbo irrigation canal. Engineer. v.103. p.234-236. March 8, 1907. Illustrated detailed description of interesting work in connection with an extensive irrigation scheme in Egypt. Relates to the supply and erection of a riveted steel canal, about a mile in length, and the supply and erection of two riveted steel rising mains.
- Krupp large canal excavator. Engineer. v.158. p.111. August 3, 1934.
- Lacey slope formula. T. Blench. Punjab engineering congress. Minutes of proceedings, 1935. Lahore, 1935. p.123-128.
- Large ditch-lining job done at low cost and high speed. Engineering news. v.97. p.52-53. July 8, 1926.
- Lethbridge northern irrigation district in Alberta. G. M. Arnold and H. G. Cockrane. Engineering news. v.92. p.243-248. February 7, 1924.
- Lining an irrigation furrow. R. H. Roberts. Rhodesia agricultural journal. v.33. p.540-541. August 1936.
- Lining canals. Public works. v.54. p.349. November 1923.
- Lining canals with concrete on the Yakima project. Engineering news record. v.103. p.722-725. November 7, 1929. Design and construction of 3-in. concrete lining for half of length of 26-mi. Kittitas canal; steel-panel device developed for holding concrete on slopes during tamping; drainage of lined sections to prevent upheaval by ground-water pressure when canal is empty.
- Lloyd barrage at Sukkur on the Indus. Engineer. v.153. p.106-107. January 22, 1932.
- Localizacion de canales por el metodo de salientes. C. P. Williams. Irrigacion en Mexico. v.8. p.148-158. March 1934. Description of method for location of irrigation canals; calculation of layout of tangents and curves; application of methods in location in field.
- Main canal of Medina irrigation project. Engineering record. v.68. p.424-427. October 18, 1913. Illustrated description of two river crossings effected by reinforced-concrete inverted siphons, and a drop made by concrete-lined chute.

- Maintaining irrigation canals subject to heavy deposits of silt. J. C. Allison. Engineering record. v.66. p.556-557. November 16, 1912. Special machinery and methods employed in the Imperial valley, California, are illustrated and described.
- Maintenance of laterals. F. Fyfe. Engineering and contracting. v.65. p.244. November 1926.
- Mathematics of canal fall cistern. T. Blench. Indian engineering. v.95. p.412-414. May 27, 1933. Mathematical analysis of fundamentals for design of stilling basins, downstream of canal drops, and weirs; determination of downstream depth required to ensure that energy which would cause damage is used up in standing wave; rules for design.
- Measurement of seepage losses in canals. O. V. P. Stout. Agricultural engineering. v.5. p.52-53, 90. April 1924. Suitable instruments essential. Details of metering as practiced in recent seepage investigations. Measurement of depths in connection with determination of rate of discharge. Selection of inlet and outlet points where water cross-sections of channel are similar will materially further consistency in results of gagings.
- Measures against deposition of silt in canals. D. Y. Sokolov. Vestnik irrigatziyi. no.3. p.20-66. March 1930. Compilation based largely on work of British and other European engineers, with special reference to observations and laboratory experiments reported by Schoklitsch in his treatise Geschiebewegung in Fluessen und an Stauwerken; results of experimental studies of models of head-works of irrigation canals designed for system in Russian Turkestan.
- Measuring irrigation deliveries in the Punjab. E. S. Lindley. American society of civil engineers. Transactions. v.96. p.1005-1019. 1932.
- Measuring large flows of water; flow in silt-laden canal gaged by contracted flume. R. L. Parshall. Engineering news record. v.106. p.183-185. January 29, 1931.
- Memoranda on irrigation by rajbuhas. W. E. Morton ... with report and details of rajbuhas. F. Whiting. Roorkee, Reprinted at the Thomason college press, 1856. 95p.
- Method and cost of removing moss from irrigation canals with disk harrow. A. M. Rawn. Engineering and contracting. v.58. p.7-8. October 11, 1922.

- Method of lining an irrigation canal with cement plaster, with a discussion on cement plaster versus lime and cement plaster. W. D'Rohan. Engineering and contracting. v.33. p.460-461. May 13, 1910. Describes work on a canal of the Standley project, Colorado.
- Method of lining irrigation canal with reinforced concrete. Engineering and contracting. v.53. p.35. January 14, 1920. Concrete lining is 3 in. thick, of 1:2:4 mix, and is reinforced with no.11 electric welded 12 in. by 12 in. mesh wire.
- Method of reducing seepage losses in an irrigation canal through porous shale. Engineering and contracting. v.46. p.522-523. December 13, 1916.
- Methods for removing aquatic vegetation from irrigation canals. Engineering and contracting. v.47. p.349-350. April 11, 1917.
- Methods of preventing and removing moss from irrigation canals. G. E. Stratton. Engineering and contracting. v.54. p.558. December 8, 1920.
- Methods of stopping leaks in irrigation canals. Engineering and contracting. v.49. p.169. February 13, 1918.
- Models aid in designing irrigation wasteway; New Mexico project. W. R. Barrows and A. W. Newcomer. Civil engineering. v.4. p.595-598. November 1934.
- Modified construction of reinforced-concrete mattresses. I. N. Kostrov. Vestnik-irrigatsiyi. no.12. p.84-87. December 1929. Russian practice in protecting banks of Turkestan irrigation canals; modified design of articulated reinforced-concrete mattresses built up of rectangular elements, 1.2m. by 0.35 by 0.075m., strung on wires perpendicular to their length, with no bond between these wires and concrete. In Russian.
- Moduling of irrigation channels. Lahore, Supt. govt. print. Punjab, 1922. 1lp. India. Punjab. Public works department. Irrigation branch. Paper no.A-26.
- Motorizing a ditch dredger; gas-electric dredger lowers operating costs and reduces canal maintenance. R. E. Bear. Electrical west. v.70. p.117-119. April 1933.
- Moving water over mountains in advanced irrigation. G. D. Clyde. Hydraulic engineering. v.5. p.17-21, 42, 44. April 1929. Construction and operation of mountain feeder ditcher for collecting and conveying water from one watershed to another.

- New ditch excavated in bank of old one. C. D. Conway. Engineering record. v.74. p.806. December 30, 1916.
- New machines developed for work on irrigation ditches. Engineering news record. v.105. p.501-502. September 25, 1920.
Excavator digging 8-ft. ditch for \$600 per mi. and efficient ditch cleaner devised by Imperial irrigation district.
- New theory of silt and scour. W. T. Bottomley. Engineering. v.125. p.307-308. March 16, 1928. Critical review of R. G. Kennedy's theories and formulas of silting and scouring in irrigation canals; states that Kennedy's assumption that silt-supporting force is independent of depth is not justified on general grounds; channels designed on Kennedy's rules are more easily put out of regime than other channels; also criticizes recently published papers by W. M. Griffith and T. W. Woods; stresses importance of gradient factor.
- Een nieuw type aftap-tevens meetinrichting. H. Vlugter. Waterstaats ingenieur. v.19. p.259-266, 382. July, November 1931.
Design developed and tested at Hydraulic laboratory of Semarang, Java.
- Nomographic chart for losses from canals. L. U. Malz. Power engineer. v.24. p.404-405. October 1929. Construction of original chart based on Moritz formula.
- Note dated November 1927 on model experiments to ascertain the effect of partial lining of the Malegaon cut in miles 38 and 39 of the Nira left bank canal. C. C. Inglis and D. V. Joglekar. Bombay, 1928.
13p. Bombay. Public works department. Technical paper no.20.
- Note of May 1931 on silt exclusion from canals. C. C. Inglis. Bombay, India, 1933. 7p. Bombay. Public works department. Technical paper no.45. Discussion of still pond versus open flow in design of schemes for exclusion of silt from large irrigation canals, under conditions of straight and curved flow.
- Note on "Model experiments to ascertain effect of raising and widening bed of Tribeni canal over Naraingarh aqueduct. S. C. Nandi. Indian engineering. v.92. p.292-295. October 8, 1932.
Tests of model, made at Bihar college of engineering, India, for study of flow and silting phenomena in large irrigation canal.
- Note on regime diagrams for the design of canals and distributaries. G. Lacey. India. United provinces of Agra and Oudh. Public works department. Irrigation branch. Technical paper no.1. Roorkee, India, 1931. 11p.

- Note on silt exclusion from canals. C. C. Inglis and D. V. Joglekar. Bombay, India, 1933. 45p. Bombay. Public works department. Technical paper no.46. First report on experiments with full width model of Sukkur barrage; design of dynamically similar models in accordance with Lacey's formulas; experiments "still pond versus open flow" with discharges equivalent to 500,000 cusecs and 350,000 cusecs; scour and silting; effect of opening under-sluices to scour out silt from approach channels.
- Notes and memoranda on the Eastern Jumna, or Doab canal, and on the water courses in the Deyna Doon. P. T. Cautley. Roorkee, India, Printed at the Thomason college press, 1861. 209p.
- Observations on consolidation of loess and settlement of canals in experimental section at Zolotaya Orda in Golodnaya Steppe. P. D. Glebov. Izvestiya Nauchno-Issledovatel'skovo instituta hydrotekhniki. v.5. pp.135-148. March-April 1932. Study of effects of tamping upon consolidation of canals and canal embankments built of loess; operation of irrigation canal excavated in loess formation. In Russian with brief English abstract.
- Observations to determine the value of "C" and "N" as used in the Kutter formula. J. D. Lippincott. Engineering news. v.57. p.612-614. June 6, 1907. Describes methods of lining irrigating canals in California, and gives experiments made to study the working conditions of old lined canals to be used in connection with the designing of an aqueduct for the new water supply of Los Angeles.
- Oldest concrete work in United States unearthed after 158 years; irrigation ditch and dam built in 1769 near San Diego. H. H. Dunn. Concrete. v.31. p.45-46. October 1927.
- Operator's viewpoint of canal and structure design. G. Ebner. Engineering news. v.89. p.1116-1117. December 28, 1922.
- Plans of structures in use on irrigation canals in the United States. From drawings exhibited by the Office of experiment stations at Paris in 1900 and at Buffalo in 1901... U. S. Department of agriculture. Office of experiment station. Bulletin no.131. Washington, D. C., 1903. 51p.
- Power generation on the All-American canal. Power plant engineering. v.38. p.148. March 1934.
- Prehistoric irrigation systems revealed by aerial survey in Oregon. O. S. Halseth. Professional engineer. v.16. p.7-8. June 1931.
- Prehistoric irrigation works. J. B. Thoburn. Professional engineer. v.16. p.7-8. February 1931.

- Preparacion para el regadio. H. Costenoble. Sugar. v.27.
p.628-630. December 1925.
- Project for the extension and completion of the Chenab canal. 1891.
Lahore, "C and M. gazetto" press, 1892. 194p.
- Pumping plant, structures, and canal lining, Hyrum-Mendon, Wellsville,
and Hyrum feeder canal, Hyrum project, Utah. Washington, D. C.,
Bureau of reclamation, 1934. 4lp.
- Punjab rivers and works. Description of the shifting rivers of the
Punjab plains and of works on them, namely; inundation canals, flood
embankments and river training works, with the principles for design-
ing and working them. E. S. Bellasis. 2d edition. London, E.
and F. N. Spon, ltd., 1912. 64p.
- Radial gate for irrigation canals. S. Hess. Scientific american.
v.122. p.457. April 24, 1920.
- Railing and ladder safeguards for canals of Kittitas project.
Engineering news record. v.104. p.988. June 12, 1930.
- Rapport fait (au cours de la precedente legislature) au nom de la
Commission de l'agriculture, sur la proposition de loi de M. Francois
Fournier tendant a faire proceder aux etudes necessaires pour etablier
les canaux d'irrigation derives du Rhone ou des ses affluents.
Francois Fournier. Repris le 1er decembre 1910 (2e seance) et
renvoye a la Commission de l'agriculture, par application de l'article
18 du Reglement. Paris, Impr. de la Chambre des deutes, 1910.
75p.
- Rapport sur le canal Ibrahimieh. C. C. Scott Moncrieff. Le Caire,
F. Moures et cie, 1884. 13p.
- Rapports sur le systeme d'irrigation dans le Basse. Egypte et sur le
canal Ismailieh. C. C. Scott Moncrieff. Le Caire, J. Barbier
et cie, 1883. 24p.
- Recent trip to Italy, Egypt, southern France and Spain. Interesting
facts and personal experiences. Elmer L. Corthell. U. S.
Army. Corps of engineers. Professional memoirs. v.7.
Washington, D. C., 1915. p.253-306.
- Reclamation of marsh and swamp lands and projected canals for irrigation
in California: with notes on the canal systems of China, and other
countries. Addressed to the Legislature of California. J. Ross
Browne. San Francisco, Alta California printing house, 1872.
60p.

- Reconstruction of the Naches-Selah irrigation canal. Elbert M. Chandler. Engineering news record. v.83. p.276-279. August 7, 1919. Parts of old sidehill canal in disrepair replaced, under war conditions, by concrete-lined tunnels, reinforced-concrete flumes, and canal with wire-reinforced concrete.
- Regelbare meetoverlaat als tertiaire aftapsluis. D. G. Romijn. Waterstaats-ingenieur. v.20. p.287-292. September 1932. Design and tests of overshot heat gates for lateral turnout; characterized by low loss of head and wide range of suitability for various flow conditions.
- Regime slope in irrigation channels. S. D. Khangar. Indian engineering. v.96. p.468-471. December 15, 1934. Results of field observations; simplified form of Kutter's formula; derivation of general slope formula; simplified form of general slope formula; tables for slope.
- Relations of irrigation to navigation. F. W. Hanna. Engineering news. v.61. p.316. March 25, 1909. Considers that the irrigation canals in arid regions are not likely to ever be used for navigation, but points out their beneficial influence by increasing production of agricultural products, preventing floods, etc.
- Relationship of canal irrigation and malaria. C. A. Gill. Agricultural journal of India. v.22. p.168-172. May 1927.
- Remodelling of Mithalak distributary. K. R. Sharma. Punjab engineering congress. Minutes of proceedings, 1928. Lahore, India, 1928. p.77-108K
- Removal of sand from irrigation canal by sluicing. Engineering and contracting. v.52. p.559-560. November 12, 1919. Sluiceways have been built at intervals of several miles and sand is removed by aid of water.
- Removal of vegetation from Twin Falls irrigation canals. R. M. Adams. Engineering news record. v.85. p.319-321. August 12, 1920. Modified disk harrow found successful after eight years' trial of various methods and machines. Cost of operation is \$24 per mile.
- Removing algae from a California irrigation canal. E. Court Eaton. Engineering news record. v.82. p.382-383. February 20, 1919. Rotary screen with water jet and heavy dose of agent.
- Repairing concrete lining of Truckee canal tunnels. W. H. Molder. Engineering and contracting. v.69. p.209-210. May 1930.

Report and revised estimate for the Sirhind canal, 1880. Punjab.
Public works department. Irrigation branch. Lahore, Public
works department press, 1881. 196p.

Report of the engineer of the Sacramento valley irrigation and navigation
canal. Willian H. Bryan. Sacramento, Cal., D. W. Gelwicks,
state printer, 1867. 52p.

Report on experinents carried out on a model of the Makhi right distrib-
utary ex-Mithrao canal, Eastern Nara division (Sind). C. G.
Hawes and H. S. Kahai. 1st edition. Bombay, India, 1930.
14p. India. Bombay. Public works department. Technical
paper no.34.

Report on hydraulic experiments on the Bari Doab canal to ascertain the
most suitable form for notches of falls on the Sirhind canal. J.
Benton. Lahore, Public works department press, 1879. 38p.

Report on reh, swamp and drainage of the western Jumna canal district.
Punjab. Public works department. Lahore, Public works depart-
ment press, 1861. 31p.

Report on the closing of the construction estimate, lower Ganges canal.
R. A. Cordner. Roorkee, Printed at the Thomason civil engineering
college press, 1894. 134p.

Report of the Ganges canal committee, convened by order of His Excellency
the governor general of India in Council ... to decide upon the
propriety of proceeding, as previously determined with Major Crafton's
project for remodelling the Ganges canal, or of stopping its progress,
pending the preparation of a detailed project according to the views of
Major-general Sir Arthur Cotton ... with a comparison of the cost and
advantages of the two plans. Roorkee, Printed at the Thomason
civil engineering college press, 1867. 51p.

Report on the Ganges canal works: from their commencement until the
opening of the canal in 1854. P. T. Cautley. London, Smith,
Elder and co., 1860. 3v.

Report on the installation and testing of various types of radial gates o
on the 84th mile, Jamrao canal. C. G. Hawes. Bombay, India,
1931. 6p. Bombay. Public works department.
Technical paper no.35. Report on operating tests of Walker
Triform gates, and Tension Hung counterbalanced gates; working of
gates and operating gear.

Report on the Jamrao canal project, Sind. Bombay. Public works
department. Bombay, Printed at the Government central press,
1907. 76p.

- Report on the Nira canal project, Poona district. Bombay. Public works department. Bombay, Printed at the government central press, 1892. 19p.
- Revised abstract of the estimate for the construction of the Sirhind canal, with accompanying papers. Punjab. Public works department. Irrigation branch. Lahore, 1885. 32p.
- Revised estimate for the Jhelum canal, 1900. Punjab. Public works department. Irrigation branch. Lahore, 1900. 35p.
- Rio Grande goes to work. C. L. Dowell. Electric journal. v.29. p.499-502. November 1932.
- Risultati di misure eseguite su grandi canali per la determinazione dei coefficienti di scabrezza. M. Visentini. Energia elettrica. v.10. p.925-932. November 1933. Results of gagings for determination of coefficient of roughness of three Italian canals, one of which is several centuries old; comparison of actual measurement of discharge with that computed on basis of Bazin and Kutter formulas.
- River and canal engineering, the characteristics of open flowing streams, and the principles and methods to be followed in dealing with them. E. S. Bellasis. London, E. & F. N. Spon, ltd., 1913. 215p.
- Rivers and canals; the flow control and improvement of rivers and the design, construction, and development of canals both for navigation and irrigation ... L. F. Vernon-Harcourt. 2d edition. Oxford, Clarendon press, 1896. 2v.
- Sand-control works at Fort Laramie canal intake. I. E. Houk. Engineering news record. v.100. p.922-926. June 14, 1928. Sand problems at Whalen dam, North Platte irrigation project, solved by construction of settling basin, skimming weir and sluiceway below intake; design of sand-control works; operation of works; construction methods; cost data.
- Sand sluicing on the Rio Grande project. Engineering and contracting. v.64. p.353-360. August 12, 1925.
- Sand trap for canal works on vortex principle. R. L. Farshall. Civil engineering. v.1. p.419. February 1931. Features of so-called vortex sand trap developed as result of experimental work in hydraulic laboratories at Fort Collins, Colo.; involves creation of horizontal vortex in expanding tube, placed diagonally across bottom of channel at 53 deg. angle.

- Short important notes (1931). C. C. Inglis. Bombay, India, 1932.
6p. Bombay. Public works department. Technical paper no.
42. Flumed aqueducts; remodeling existing canal or distributary
to pass increased discharge; afflux caused by heading of water at
regulators of canal and extent of back water; distribution of
velocities in channels.
- Significance of Boulder canyon project. W. R. Young. Civil engineer-
ing. v.5. p.281-283. May 1935.
- Silt distribution at bifurcations on canals. Indian engineering. v.35.
p.52-55. January 26, 1929. Results of silt-
distribution experiments at Pacca Dallah; practical application of
results.
- \$6,000,000 irrigation and power project in Texas. Manufacturers record.
v.101. p.16-18. June 23, 1932.
- \$6,600,000 irrigation project underway in Texas. Manufacturers record.
v.99. p.33-34. May 21, 1931.
- Small irrigation canals lined with concrete to prevent seepage water loss.
C. E. Edwards. International review of the science and practice
of agriculture. v.7. p.1016-1017. July 1916.
- Some hydraulomat developments. Engineer. v.143. p.256-257.
September 6, 1929.
- Some results of field studies of silt regimen of headworks of Malo-
Kabardin irrigation system on river Terek. A. F. Burkov.
Izvestiya nauchno-issledovatel'skogo instituta hidrotekhniki. v.12.
p.119-143. 1934. Silt movement and deposition at
Caucasian irrigation canal headworks, 288.5 mi. long; analysis of
silt samples; operation of scouring sluices; silting of canal.
In Russian, with brief English abstract.
- Spillways for reservoirs and canals. A. T. Mitchelson. U. S.
Department of agriculture. Department bulletin no.831. Washington,
D. C., 1920. 40p.
- Stable channels in erodible material; studies relative to the design of
the All-American canal. E. W. Lane. American society of civil
engineers. Transactions. v.102. p.123-194. 1937.
- Sulzur barrage irrigation project, 1920. F. W. Woods. Engineer.
v. 142. p.680-683. December 24, 1926.
- Sul problema del Kennedy. F. Arredi. Ingegnere. v.6. p.801-805.
November 1932. Theoretical mathematical discussion of Kennedy's
formula referring to transportation of silt in irrigation canals,
in light of experience in Egyptian irrigation systems.

- Stable channels in alluvium. G. Lacey. Institution of civil engineers. Minutes of proceedings. v.229. p.259-334. 1930.
Author collates reliable data of stable channels at India and Egypt and deduces new general formulas for extended range of hydraulic observations; Lindley theorem is true; all stable channels of same discharge have same wetted perimenter, and silt factor determines shape; rugosity coefficient in Manning's formula is simple function of silt factor; at velocity between 1.0 and 0.6 ft. per second, transportation of silt other than colloids is possible.
- Stable channels in erodible material. E. W. Lane. American society of civil engineers. Transactions. v.102. p.123-194. 1937.
Factors controlling stable channel shapes of All-American canal, which will divert 15,000 cu.ft. per sec. from Colorado river; critical velocity formulas for non-silting, non-scouring velocities; comparison of formulas for width-depth relation; conditions required for stable channels for clear water, for channels carrying solids in suspension, and channels carrying bed load; colloids; stable channel shapes.
- Stabilization of soils by the use of bitumen emulsions. C. H. Haswell. India. Central board of irrigation. Publication no.9. Sinla, India, 1935. 14p.
- State planning. Evaporation and conduction losses from reservoirs and canals in Utah. Utah state planning board. S. R. DeBoer, federal planning consultant. Prepared by Henry R. Watson. Salt Lake city, 1935. 19p. mimeographed.
- Station de pompage et les canaux d'irrigation de Sontay (Tonkin). J. Gauthier. Genie civil. v.102. p.421-423. May 6, 1933.
Irrigation of 10,000-ha track by pumping from Red river at Sontay, in province of Tonkin; construction of irrigation canal system totaling 280 km. in length, also of pumping station equipped with three 250 -hp steam engines.
- Still larger projects planned. T. D. Darlington. Explosives engineer. v.9. p.400-401. November 1931.
- Structures on a Texas water service district; city supply and irrigation system at Wichita Falls. J. L. Lochridge. Engineering news record. v.97. p.743-751. November 4, 1926.
- Study of the internal economy of water as practised by Zemindars on an outlet on the upper Bari Doab canal. J. D. H. Bedford. Punjab engineering congress. Minutes of proceedings, 1932. Lahore, India, 1932. p.15-19e.
- Theoretical design of a new type of outlet for irrigation channels. K. R. Sharma. Punjab engineering congress. Minutes of proceedings, 1931. Lahore, India, 1931. p.105-113k.

- Thin concrete lining successful in irrigation canals. R. C. E. Weber.
Engineering news record. v.88. p.436-437. March 16, 1922.
Canal lining, 1 1/2 in. thick, placed on 64 mi. of main distribution
system of Orland project of U. S. Reclamation service at cost of 39
cts. per sq. yd., saves 60 per cent in maintenance and permits less
seepage than earth construction.
- Transiciones en Conductos para Agua. C. Ramirez Ulloa. Irrigacion
en Mexico. v.4. p.444-454. March 1932. Study based on
paper by J. Hinds on transitions for aqueducts and siphons in the
Transactions of the American society of civil engineers for 1928;
data as applied in construction work on Mexican national irrigation
system no.3.
- Tunnel-canal-siphon outlet of Casper-Alcova reservoir. Engineering
news record. v.115. p.387-388. September 19, 1935.
- Ueber die bewässerungs-kanäle in den Walliser-Alpen. L. Blotnitzki.
Bern, Druck von Rieder and Simmen, 1871. 46p.
- Use your irrigation canals and ditches for drainage during the wet
season. Irrigation age. v.33. p.187-188. September
1918.
- Verbeteringen aan den inlaat der Manggishoofdleiding. H. Vlughter.
Waterstaats-ingenieur. v.20. p.327-333. November 1932.
Improvements made in reinforced-concrete regulator of Manggis canal
at Badran dam; on basis of hydraulic tests.
- Water-conduit construction in the West; modern materials and construction
methods. F. C. Scobey. Civil engineering. v.5. p.569-
571. September 1935.
- Water losses in irrigation canals and methods of prevention. F. W. Hanna.
Canadian engineer. v.21. p.141-143. August 3, 1911.
Discusses losses due to evaporation and percolation, and the effect-
iveness of ditch linings.
- Weed growths in reservoirs and open canals. G. E. Arnold. American
water works association. Journal. v.27. p.1684-1693.
December 1935.
- Weeds in irrigation ditches. W. S. Ball. Pacific rural press.
v.131. p.340. March 14, 1936.
- Weeds in irrigation ditches. A. Morgan. Journal of the Department
of agriculture of Victoria. v.34. p.517-519. October 1936.
- West side irrigation and mining canal in Wyoming and Colorado. Elwood
Mead. Engineering news. v.36. p.66-67. July 30. 1896.
Illustrated description. Most interesting feature is the extent to
which wooden pipe has been utilized.

- Why some irrigation canals and reservoirs leak. A. P. Davis.
Engineering news record. v.80. p.663-665. April 4, 1918.
Subterranean cavities cause settlements when water is turned in.
- World's greatest irrigation-canal. Literary digest. v.52.
p.113. January 15, 1916.
- Ditches.
- Delivery of irrigation water. Wells A. Hutchins. U. S. Department
of agriculture. Technical bulletin no.47. Washington, D. C.,
1928. 48p.
- Delivery of water to irrigators. Frank Adams. U. S. Department of
agriculture. Office of experiment stations. Bulletin no.229.
Washington, D. C., 1910. 99p.
- Determination of lateral capacities to supply irrigation requirements.
J. L. Franzen. Contract record. v.34. p.244-249.
March 17, 1920. Procedure used in calculating size and profile of
ditches, taking seepage loss into consideration. How crop requirements
govern applications of water and period of irrigation.
- Ditch cleaning experiments in Delaware. W. D. Ellison. Washington,
D. C., U. S. Department of agriculture, Bureau of agricultural
engineering, 1934. 6p. mimeographed.
- Drainage ditches for Rio Grande irrigation project. L. M. Lawson.
Engineering news record. v.89. p.574-575. October 5, 1922.
Reclamation of lands spoiled by seepage and alkali from excess
irrigation. Cost of contract and force work.
- Farm irrigation ditches, tools and structures. M. R. Kulp. Idaho.
University. Extension division. Circular no.48. Boise, Idaho,
1934. 22p.
- How to build small irrigation ditches. C. T. Johnston and J. D.
Stannard. U. S. Department of agriculture. Farmers' bulletin
no.153. Washington, D. C., 1902. 28p.
- Keeping irrigation ditches clear. Scientific american. v.127.
p.305. November 1922.
- Lining irrigation ditches in Hawaii by the cement gun process. A. W.
Collins. Engineering and contracting. v.41. p.397-398.
April 1, 1914. Describes methods of work and gives report of cost.

- Lining of ditches and reservoirs to prevent seepage losses. Elwood Mead and B. A. Etcheverry. California. Agricultural experiment station. Bulletin no.188. Berkeley, Cal., 1907. 385-420p.
- Methods of delivering water. Oregon. Agricultural college. Extension service. Circular no.193. Corvallis, Ore., 1922. 9p.
- Methods of finding center cut for economic locations of banked irrigation ditches. F. C. Snow. Engineering and contracting. v.41. p.481-482. April 22, 1914. Explains method of constructing diagrams which furnish an easy way of obtaining the center cut.
- On the measurement and division of water. L. G. Carpenter. Colorado. Agricultural experiment station. Bulletin no.150. Fort Collins, Colo., 1911. 42p.
- Small irrigation ditches. A. R. Williams. Farm engineering. v.3. p.270. June 1916.
- Flumes.
- Advantages of metal flumes. Irrigation age. v.31. p.105. May 1916.
- Cement plaster lining for wood irrigation flumes. Everett N. Bryan. Engineering news record. v.85. p.1090-1092. December 2, 1920. Experience on three flumes aggregating 1560 ft. indicates success at cheaper cost than all-wood flume.
- Combined water-supply, irrigation and power project. Burt A. Heinly. Engineering magazine. v.38. p.161-174. November 1909. Illustrated account of the plan, construction, and purposes of the Los Angeles aqueduct.
- Completion of the Los Angeles aqueduct. Burt A. Heinly. Municipal engineering. v.44. p.289-298. April 1913. Illustrates and describes features of this great engineering work, and gives information concerning the difficulties overcome in its construction and matters related.
- Concrete aqueduct irrigates half million acres; Canadian Pacific railway project. G. P. French. Concrete. v.37. p.39. December 1930.
- Concrete box flume carried across gulch on trestle. A. W. Collins. Engineering news record. v.82. p.463-464. March 6, 1919. Substitution of concrete for steel in irrigation system at Hawaii.
- Concrete flumes solve tunnel drainage problem. M. F. Clements. Railway age. v.77. p.189-191. August 2, 1924. Precast construction proves effective in overcoming difficulty from water in stamped tunnel, Washington.

- Concrete slab flume construction. S. L. Stovall. Western engineering. v.42. p.353-363; 449-459. May 1913. Illustrated description of work in California.
- Construction and completion of the Los Angeles aqueduct. Burt A. Heiny. Engineering magazine. v.45. p.1-17. April 1913. Illustrated description of this remarkable water supply, irrigation and power project.
- Experiments on the flow through flume transitions. American society of civil engineers. Proceedings. v.53. p.127-129. 1927.
- Farmer's short-box measuring flume. Carl Rohwer. U. S. Department of agriculture. Department bulletin no.1110. Washington, D. C., 1922. 14p.
- Flow conditions in irrigation flumes unstable. J. S. Longwell. Engineering news record. v.80. p.38-39. January 3, 1918.
- Flow of water in flumes. F. C. Scobey. U. S. Department of agriculture. Technical bulletin no.393. Washington, D. C., 1933. 98p. Formulas for flow; field data for computation of elements essential to study of flow characteristics in flumes; elements of experiments for determination of coefficient of flow in Chezy's formula and retardation factors in Kutter's and Manning's formulas; flow classification; effect of shape and curvature; effects of algae and insects; problems in capacity design.
- Flume construction on the Medina valley irrigation project. A. C. Norton. Colorado school of mines magazine. v.3. p.125-133. June 1913. Brief description of this project and illustrated detailed description of methods used in constructing the flumes.
- Flumes and fluming. E. S. Bruce. U. S. Department of agriculture. Department bulletin no.87. Washington, D. C., 1914. 36p.
- Fluming. A. M. R. Montagu. India. Central board of irrigation. Publication no.6. Sinla, 1934. 30p. Hydraulic design of open and sealed artificial channels, built of masonry or concrete, including aqueducts, falls, low and high-velocity syphons, venturi flumes, etc.; definition and classification of flumes.
- Good practice and some features in log-flume construction. F. K. Woods. Engineering news record. v.86. p.768-770. May 5, 1921. Description of 5-ft. side flume in northern Idaho.
- Hydraulic design of flume and siphon transitions. J. Hinds. American society of civil engineers. Transactions. v.92. p.1423-1485. 1928. Flow of water through more common types of transition sections can be calculated quite accurately by methods which author discusses; tests were made in Hydraulic laboratory of Technische Hochschule in Karlsruhe on models of inlet transitions, two models of outlet transitions, and three combined models of inlet and outlet connected by short piece of tunnel.

- Improved transition adds to flume capacity; Agua Fria river flume of Roosevelt irrigation district. J. A. Fraps. Engineering news record. v.111. p.110-112. July 27, 1933.
- Improved Venturi flume. R. L. Parshall. American society of civil engineers. Transactions. v.89. p.841-880. 1926.
- Improved Venturi flume. R. L. Parshall. Colorado. Agricultural experiment station. Bulletin no.336. Fort Collins, Colo., 1928. 84p.
- Irrigation department, Punjab, Bansil Lal. Punjab. Public works department. Class A, no.30-A. 26p. Treats of experiments made in Venturi shaped flumes called constriction outlets and comparison with Crump's formula for discharge. Part 1: Experiments on lateral construction outlets (1920-21), including note, dated March 7, 1925, by E. S. Crump. Part 2: Discussions by Punjab engineering congress on Fane and Colyer's papers on flume experiments presented at 1927 meeting. Part 3: Discussions by C. C. Inglis on same papers.
- Irrigation flume of V-section supplies Oregon project. Engineering news record. v.93. p.9-10. July 3, 1924. Design of 352-ft. V-shaped flume for Silver lake irrigation district, a recently constructed project in Lake county, Ore. Its advantages. Wedging system makes nails unnecessary to hold plank in place. Only standard sizes of lumber used.
- Irrigation flumes for rice fields built of creosoted timber. Wood preserving news. v.6. p.83-84,96-97. July 1928. Fields are flooded by means of sluice gates and small lateral canals; flumes vary from 100 to 110 ft. in length and provide for clear waterway 8 ft. wide and 2 1/2 ft. deep; square edge and sound Southern pine timber was used throughout, pressure treated by standard empty-cell process; final retention of 12-lb. coal-tar creosote per cu.ft.
- Lindsay-Strathmore irrigation flume. Stephen E. Kieffer. Canadian engineer. v.35. p.525-527. December 19, 1918. Self-supporting, high-level flume with 2-in. walls built on inside forms at rate of 130 lin.ft. per 8-hr. day; nearly \$1,500,000 expended in improvements to 15,500 acres in California.
- Measuring large flows of water; flow in silt-laden canal gaged by contracted flume. R. L. Parshall. Engineering news record. v.106. p.183-185. January 29, 1931.
- Metal flumes for irrigation canals. F. W. Hanna. Engineering news. v.70. p.1077-1079. November 27, 1913. Describes types in use in the United States, and the construction methods used on the Boise project.

- 1000-foot creosoted timber flume carries large irrigation across Plum creek, Colorado. Wood preserving news. v.6. p.157-160. November 1928. Section of flume is rectangular with dimensions 19 ft. 2 in. in width and 9 ft. in height; supported on timber bents constructed at 15 ft. 6 in. centers; Coast Douglas fir was used throughout, and piling was pressure creosoted by empty-cell process.
- Operation and maintenance of irrigation systems. R. S. Stockton. Engineering and contracting. v.61. p.536-587. March 12, 1924.
- Practical and durable sheet metal flumes. Irrigation age. v.31. p.136-137. July 1916.
- Precast concrete flumes and ditches conserve soil and water; irrigation system of large sugar plantation in Hawaii. Concrete. v.44. p.24. September 1936.
- Reconstruction of an American river flume. Lewis H. Eddy. Engineering and mining journal. v.95. p.667-669. March 29, 1913. Describes repairs near Placerville, California.
- Reinforced-concrete flumes poured in 100-foot lengths. Engineering news record. v.80. p.567-568. March 21, 1918. Hub and spigot expansion joints in six irrigation conduits have been in service in two years.
- Research investigation of current-meter behavior in flowing water. S. L. Kerr. American society of mechanical engineers. Transactions. v.57. p.295-301. August 1935. Inconsistencies of flow measurements in closed flumes by means of current meters; construction of flume in which two meters were installed side by side and tested under varying conditions of low; velocity distribution in flume; establishment of true velocity plane across face of meters by means of pitot tube; pitot-tube coefficient established for each flow condition.
- Results of tests on siphon spillways for large flume on Mokelumne project. T. J. Corwin and A. W. Kidder. Engineering news record. v.103. p.649-652. May 5, 1932.
- Structures on a Texas water service district; city supply and irrigation system at Wichita Falls. J. L. Lochridge. Engineering news record. v.97. p.743-751. November 4, 1926.
- Surplus water of the Los Angeles aqueduct. Burt A. Heinly. Engineering news. v.69. p.506-510. March 13, 1913. Explains the Mulholland plan and the Graham plan for selling water that will not be needed for some years.

Treated lumber for irrigation structures; pressure creosoted material.
L. M. Grant. Civil engineering. v.1. p.1090-1091.
September 1931.

Types of flume in Yakima valley irrigation distructs. W. A. Scott.
Engineering world. v.17. p.154-156. September
1920. Concrete, wood-stave and metal flumes.

Venturi flume. V. M. Cone. Journal of agricultural research.
v.9. p.115-129. April 23, 1917.

Venturi flume. R. L. Parshall and C. Rohwer. Colorado. Agri-
cultural experiment station. Bulletin no.265. Fort Collins,
Colo., 1921. 28p.

Pipes and Tunnels.

Cement pipe for small irrigating systems and other purposes. G. E. P.
Smith. Arizona. Agricultural experiment station. Bulletin
no.55. Tucson, Ariz., 1907. 167-184p.

Concrete irrigation pipe in San Joaquin valley. W. A. Scott. Concrete
products. v.32. p.67-69. March 1927. Irrigation
pipe in this section is required principally for distribution of water
to orchards and fields to be irrigated, but to some extent as conduits
for general supply lines.

Concrete pipe and overflow basins for distributing irrigation water.
Eugene C. Mills. Engineering record. v.67. p.652-654.
June 14, 1913. Illustrates and describes details of the
system used on the Sacramento valley project.

Concrete pipe irrigation system, Delhi settlement. John R. Jahn.
Engineering news record. v.91. p.464-466. September 20,
1923. Million feet of pipe being laid by California state
land settlement; buried sand traps and other features.

Corrugated-iron construction on the Sacramento valley irrigation project.
Eugene C. Mills. Engineering news. v.71. p.174-176.
January 22, 1914. Illustrates and describes the various uses
of this material.

Depreciation on slip-joint protected steel pipe. Engineering news.
v.95. p.603-604. October 8, 1925.

Driving the Strawberry tunnel. Edward R. Zalinski. Engineering
and mining journal. v.91. p.1153-1155. June 10, 1911.
Describes the equipment and methods adopted in driving a 4-mile
concrete-lined tunnel for irrigation water in Utah.

- Effect of soluble fertilizers on cement pipe. D. D. Waynick.
California citrograph. v.20. p.390-391. October 1935.
- Erste tunnel in Aegypten. C. Andreae. Bautechnik. v.8.
p.709-712. November 7, 1930. Egypt's first tunnel. Naga
Hammadi irrigation project in upper Egypt; special reference to design
of concrete-lined tunnel of basket handle section, 10 m. max. width
and 6.6 m. max. height, 1000 m. long, for carrying flow of large
irrigation canal under cliffs on east shore of Nile.
- Garden sub-irrigation with concrete tile. M. R. Bentley and J. F.
Rosborough. Texas. Agricultural and mechanical college.
Extension service. Miscellaneous series no.130. College Station,
Tex., 1932. 6p.
- Irrigation pipes of concrete economical under some conditions. Samuel
Fortier. U. S. Department of agriculture. Yearbook, 1928.
Washington, D. C., 1929. p.395-396.
- Laramie-Poudre tunnel. Burgis G. Coy. Engineering record. v.63.
p.45-47. January 14, 1911. Describes the driving of this
tunnel, which forms a part of an irrigation project in Colorado.
- Machine-made cement pipe for irrigation systems and other purposes.
G. E. P. Smith. Arizona. Agricultural experiment station.
Bulletin no.86. Tucson, Ariz., 1918. 171p.
- Methods of tunnel work and cost data on an irrigation project. Henry A.
Young. Engineering news. v.61. p.128-129. February 4,
1909. Describes work on the Huntley project, Mont., giving cost
data.
- Moreno mutual irrigation company, California. G. E. Holyoke.
Western construction news. v.2. p.46-47. June 25, 1927.
Construction of distribution pipe lines; main line consists of one
long inverted siphon, is 34,396 ft. long, and including several
smaller siphons; siphon for entire length is 24 in. diameter, double-
dipped, steel pipe, wrapped with Pabco soil-proof pipe covering.
- Operation and maintenance of the Gunnison irrigation tunnel. Engineering
and contracting. v.54. p.231-232. September 8, 1920.
Tunnel is 30,582 ft. long. Floor was lined throughout, and side walls
and arch only where material was soft. Results of investigations
made to determine value of coefficient n in Kutter's formula are
included.
- Standard specifications for corrugated metal pipe culverts. U. S.
Department of agriculture. Department circular no.331. Washington,
D. C., 1925. 6p.

Strawberry tunnel of the U. S. Reclamation service. Engineering record. v.63. p.432-434. April 22, 1911. Illustrated description of work in connection with the Strawberry valley irrigation project in Utah.

Submerged wooden pipe and concrete diverting dam for the Rio Grande dam and irrigation co. J. L. Campbell. Engineering news. v.38. p.34-35. July 15, 1897. Describes features of a comprehensive system of irrigation, which, if completed, will supply water to 300,000 acres of land.

Use of burned clay, concrete and wood pipe for irrigation. R. K. Tiffany. Engineering news record. v.95. p.419. September 10, 1925. Some of clay and concrete pipe without bells and with mortar joints and collars; internal expanding forms.

Use of concrete pipe in irrigation. F. W. Stanley. U. S. Department of agriculture. Department bulletin no.906. Washington, D. C., 1921. 54p.

Use of concrete pipe in irrigation. F. W. Stanley and S. Fortier. Agricultural engineering. v.2. p.194. September 1921.

Wood pipe for conveying water for irrigation. S. O. Jayne. U. S. Department of agriculture. Department bulletin no.155. Washington, D. C., 1914. 40p.

WATER RIGHTS.

Abstract of laws for acquiring titles to water from the Missouri river and its tributaries with the legal forms in use. Compiled by Elwood Mead. U. S. Department of agriculture. Office of experiment stations. Bulletin no.60. Washington, D. C., 1899. 77p.

Abstract of the laws of the several states and territories on irrigation and water right. Compiled by O. A. Critchett. Published by authority of the secretary of agriculture. U. S. Department of agriculture. Office of irrigation inquiry. Bulletin no.1. Washington, D. C., 1893. 180p.

Acquirement of water rights in the Arkansas valley in Colorado. J. S. Greene. U. S. Department of agriculture. Office of experiment station. Bulletin no.140. Washington, D. C., 1903. 83p.

Adjudication of water rights in irrigation regions. Elwood Mead. Engineering magazine. v.14. p.1000-1010. March 1898. Discusses the differences in ownership between water rights and other property, and advocates individual operation under public ownership as the solution of the problem.

- Adjusting Idaho's water rights. Irrigation age. v.31. p.139.
July 1916.
- Adjustment of water-rights charges. Hearings before the Committee on
irrigation and reclamation, House of representatives, Sixty-ninth
congress, 1st session. Washington, D. C., Government printing
office, 1926. part 1.
- Administrative control of underground water; physical and legal aspects.
H. Conkling. American society of civil engineers. Proceedings.
v. 62. p.485-516, 965-969, 1087-1088. April, August, September 1936.
- Amount of water used to irrigate mountain hay land; a study in valuing
water rights. M. E. Bunger. Engineering news record.
v.78. p.488-489. June 7, 1917.
- Beneficial use to stop big water waste in Idaho. Irrigation age.
v.31. p.58-59. February 1916.
- Biennial report. Washington. State hydraulic engineer. 1st -
date. 1917/18 - date. Olympia, Wash., 1918 - date.
- Brief and memorandum relating to riparian and water rights of the federal
government and of the various states. Knute Nelson. Washington,
D. C., Government printing office, 1910. 14p. U. S. 61st
congress. Senate. Document no.351.
- Call, resolutions and official proceedings. Western states water power
conference, Portland, Oregon, September 21-22-23, 1915. Governors
and official delegates of states of Arizona, California, Colorado,
Idaho, Montana, New Mexico, North Dakota, Nevada, Oregon, South
Dakota, Utah, Washington and Wyoming. Chairman: William Spry,
governor of Utah, secretary: C. C. Chapman ... Portland, Or.,
C. C. Chapman, 1915. 279p.
- Cases on the law of water rights, selected and arranged. Joseph Walter
Bingham. Indianapolis, Bobbs-Merrill co., 1916. 750p.
- Concesion i distribucion de las aguas en los aprovechamientos agricolas
i fabriles; conferencia dada en la universidad del estado a nombre
de las sociedades nacionales de agricultura, de mineria i de fomento
fabril el 28 de julio de 1902. Pedro Luis Gonzalez. Santiago
de Chile, Imprenta Cervantes, 1902. 16p.
- Control of use of stream waters in the United States. Russel L. Dunn.
San Francisco, Cal., 1910. 65p.
- Controversy on the use of water from Arkansas river. C. L. Patterson.
American water works association. Journal. v.22. p.597-613.
May 1930.

Court adjudications of water rights on Sevier river. Frank Adams.
U. S. Department of agriculture. Office of experiment stations.
Bulletin no. 124. Washington, D. C., 1903. 34p.

Das badische wasserrecht, enthaltend das wassergesetz vom 26. juni 1899
nebst den vollzugsvorschriften und den sonstigen wasserrechtlichen best-
immungen. Systematisch dargestellt und erlautert. Karl Schenkel.
2 aufl. Karlsruhe i.B., Druck und verlag der G Braun'-schen hof-
buchdruckerei, 1902. 774p.

Decisions of the Water courts of the Union of South Africa. From August,
1921 to December, 1928 inclusive. Edited by C. G. Hall
Cape Town & Johannesburg, Juta & co., ltd, 1929. 244p.

Determination of the duty of water in water-right adjudications.
American society of civil engineers. Transactions. v.90.
p. 1074-1093. 1927. Features of water adjudications of interest
to engineers; principles on which duty of water is defined as indicated
by court decisions; character of evidence likely to be most useful in
assisting adjudicating agencies in such determinations; illustrations
of results and practices in existing decrees.

Elements of western water law. A. E. Chandler. San Francisco, Cal.,
Technical publishing co., 1918. 158p.

Fight for water in the west. A. C. Laut. Colliers' magazine.
v.44. p.17-19, 13-15, 15-16, 18-19. October 16, 30,
November 20, December 4, 1909.

Full use of Sacramento valley water wanted. R. E. Hodges. Pacific
rural press. v.100. p.198. August 14, 1920.

Governor's message relating to conservation. January 17, 1911.
Helena, Mont., 1911. 7p.

Growth of property rights in water. E. Mead. International. v.6.
p.1-12. September 1902.

Hearing and argument in the matter of the measurement and apportion-
ment of the waters of the St. Mary and Milk rivers and their tribu-
taries in the United States and Canada, under article VI of the treaty
of January 11, 1909, between the United States and Great Britain.
St. Paul, Minn., May 24 to 28, 1915. International joint commission
(U. S. and Canada). Washington, Government printing office, 1915.
306p.

Hearing in the matter of the measurement and apportionment of the
waters of the St. Mary and Milk rivers and their tributaries in the
United States and Canada under article VI of the treaty of January 11,
1909, between the United States and Great Britain. Chinook, Montana,
Lethbridge, Alberta, September 15 and 17, 1921. International
joint commission (U. S. and Canada) Washington, D. C. Government
printing office, 1923. 91p.

- How a water filing or appropriation is made. W. A. Johnstone.
California cultivator. v.55. p.826. December 25, 1920.
- Important questions for irrigators. G. Lowther. Irrigation age.
v.31. p.149-150. August 1916.
- In the Department of state. In re the Elephant Butte dam affair (Rio
Grande claim) Filed by Dr. Nathan Boyd. n.p., 1922. 166p.
- In the matter of the measurement and apportionment of the waters of the
St. Mary and Milk rivers and their tributaries in the United States
and Canada under article VI of the treaty of January 11, 1909
between the United States and Great Britain. Order. Ottawa, October 4,
1921. Recommendations. Ottawa, October 6, 1921. International
joint commission. (U. S. and Canada). Washington, D. C., Govern-
ment printing office, 1923. 6p.
- Influence of state boundaries on water-right controversies. E. Mead.
Independent. v.57. p.1309-1303. December 8, 1904.
- International aspects of the Rio Grande project, Texas and New Mexico.
H. H. Brooks. Las Cruces, N. M., 1923. 129p.
- Interstate water conflicts and possible solution. Engineering news
record. v.86. p.755-759. May 5, 1921. Symposium of
papers by representative American engineers.
- Interstate water conflicts and possible solution. R. I. Meeker.
Engineering news record. v.86. p.157-160. January 27, 1921.
Complete utilization by large projects for irrigation and power
depends on engineering and legal cooperation of states involved.
Possibility of interstate compacts.
- Interstate water matters; progress report of the Committee of the
irrigation division. American society of civil engineers. Trans-
actions. v.94. p.1400-1424. 1930.
- Irrigation and water rights. Engineering magazine. v.25.
p.748-749. August 1903.
- Irrigation and water rights. New law as amended by the eighth session
of the Legislature of the state of Utah. 1909. Salt Lake city,
Star printing company, 1909. 31p.
- Irrigation in southern Europe: being the report of a tour of inspection
of the irrigation works of France, Spain and Italy, undertaken in 1867-
68 for the government of India. C. C. Scott-Moncrieff ... With
an appendix. London, E. & F. N. Spon, 1868. 371p.

- Irrigation laws of the northwest territories of Canada and of Wyoming, with discussion. J. S. Dennis and others. U. S. Department of agriculture. Office of experiment stations. Bulletin no.96. Washington, D. C., 1901. 90p.
- Irrigation problems. Outlook. v.84. p.99. September 15, 1906.
- Joint ownership of water rights. L. G. Dennis. Conservation. v.10. p.3. January 1921.
- Klamath irrigation district suit bill. Joint hearing before the Committees on irrigation and reclamation, Congress of the United States, Sixty-ninth congress, first session on S. 3189 and H. R. 9493 ... April 30, 1926. Washington, D. C., Government printing office, 1926. 170p.
- Law of waters and water right; international, national, state, municipal, and individual including irrigation, drainage, and municipal water supply. Henry Philip Farnham. Rochester, Lawyers' co-operative publishing co., 1904. 3v.
- Laws and regulations relative to the distribution of water by superintendents of irrigation and water commissioners, in Colorado. Issued from the state engineers office. Denver, 1887. 33p.
- Laws of the state of Idaho relative to public waters, water rights and irrigation. Compiled by A. C. Hindman ... in accordance with provisions of the Act of March 16, 1915, laws 1915, page 251. 1915. Published by direction of the Idaho irrigation and drainage code commission. Boise, 1916. 303p.
- Laws relating to water and water rights of the state of Utah; Compiled from the revised statutes of Utah for 1933 and the session laws of 1935. T. H. Humphreys, state engineer. Salt Lake city, 1935. 54p.
- Legal problems of reclamation of lands by means of irrigation. M. Bien. Annals of the American Academy of political and social science. v.33. p.664-676. May 1909.
- Legislation concerning water-rights. O. W. Israelson. Utah. Agricultural experiment station. Circular no.38. Logan, Utah, 1913. 26p.
- Letter of transmittal and report of W. F. McClure, state engineer, concerning the Owens valley-Los Angeles controversy to Governor Friend Wm. Richardson. California. Department of public works. Division of engineering and irrigation. Sacramento, California state printing office, J. E. King, state printer, 1925. 101p.

List of references on water rights and the control of waters. Compiled under the direction of Hermann H. B. Meyer, chief bibliographer. Washington, D. C., Government printing office, 1914. 111p.

Little Walla irrigation union, a corporation, and about 40 others, plaintiffs, appellants and cross-respondents, vs. Finis irrigation company, a corporation, and about 400 others, defendants and respondents, of which about 50 are also cross-appellants. Brief prepared by state engineer and submitted by attorney general as to the state's interests in the unappropriated waters of the streams in controversy. John H. Lewis, state engineer, A. M. Crawford, attorney general. n.p., 1911. 56p.

Message from the President of the United States, transmitting a report from the secretary of state, with accompanying papers, in regard to the equitable distribution of the water of the Rio Grande. February 14, 1903. Washington, D. C., Government printing office, 1903. 159p.
U. S. 57th congress. Senate. Document no. 154.

Modern water feuds in the west. W. V. Woehlke. World to-day. v. 14. p. 663-667. June 1908.

Notes on suits between states; interstate waters - irrigation. Carmen F. Randolph. New York, 1902. 53p.

Oregon system of water titles. John H. Lewis, state engineer. Salem, Ore., 1912. 16p. Oregon. State engineer. Bulletin no. 2.

Organization of water users' associations, 1913. U. S. Bureau of reclamation. Washington, D. C., Government printing office, 1913. 31p.

Ownership and control of water in the irrigated west. Engineering news. v. 36. p. 365-366. December 3, 1896. Discusses some of the broader phases which are intimately connected with the character of irrigation works.

Ownership and control of water in the irrigable west. Elwood Mead. Engineering news. v. 36. p. 402. December 17, 1896. Letter calling attention to features of the water laws not generally understood.

Partial proceedings of Conference of governors, commissioners and advisors of the states of Arizona, California, Colorado, Nevada, New Mexico, Utah, and Wyoming, on the Colorado river ... August 22 to September 1, 1927. Miami, Ariz., Daily silver belt, 1927. 80p.

- Partial proceedings of Conference of governors, commissioners and advisors of the state of Arizona, California, Colorado, Nevada, New Mexico, Utah and Wyoming, on the Colorado river. Second session ... September 19, to October 4, 1927. Miami, Ariz., Daily silver belt, 1927. 32p.
- Policies governing the ownership of return waters from irrigation. W. A. Hutchins. U. S. Department of agriculture. Technical bulletin no. 439. Washington, D. C., 1934. 48p.
- Prior irrigation rights are prorated to new rice. R. E. Hodges. Pacific rural press. v.99. p.729. May 8, 1920.
- Proposed water code. G. E. P. Smith. Arizona. College of agriculture. Extension service. Circular no.11. Tucson, Ariz., 1916. 8p.
- Reargument in the matter of the measurement and apportionment of the waters of the St. Mary and Milk rivers and their tributaries in the United States and Canada under article VI of the Treaty of January 11, 1908, between the United States and Great Britain. Ottawa, Canada, May 3, 4, and 5, 1920. International joint commission (U. S. and Canada) Washington, D. C., Government printing office, 1921. 200p.
- Relation of the state to irrigation. R. P. Teele. Journal of political economy. v.14. p.236-251. April 1906.
- Report. British Columbia. Lands department. Water rights branch. 1912 - date. Victoria, B. C., 1913; - date.
- Report. California. Department of public works. Division of water rights. 1920/22 - 1926/28. Sacramento, Cal., 1923-1929.
- Report of Committee on irrigation investigations of the Senate. By authority of S.R. no. 16 of the seventeenth general assembly (Senate journal, 1909, p.1092) Denver, 1911. 16p.
- Report of irrigation investigations in California. Elwood Mead and others. U. S. Department of agriculture. Office of experiment stations. Bulletin no.100. Washington, D. C., 1901. 411p.
- Report of irrigation investigations in Utah. R. P. Teele and others. U. S. Department of agriculture. Office of experiment stations. Bulletin no.124. Washington, D. C., 1903. 330p.
- Report of the American section of the International water commission, United States and Mexico. Message from the President of the United States transmitting report submitted by the American section of the International water commission, United States and Mexico ... Washington, D. C., Government printing office, 1930. 492p.

Report of the Commission appointed by his excellency, the governor of the state of Colorado, to revise the laws of the state regulating the appropriation, distribution and use of water, with the draft of a bill prepared by the Commission for enactment by the General assembly. E. T. Wells, T. C. Henry, J. S. Greene, commissioners. Denver, 1890. Printed by authority. Denver, Colo., The Collier & Cleveland lith. co., state printers, 1890. 300p.

Report of the Commission on conservation. January 14, 1911. Montana. Commission on conservation. Helena, 1911. 5p.

Report of the Washington water code commission, including a copy of the proposed code; an address on the needs for such legislation, and some letters and resolutions in support of the proposed bill ... Olympia, 1914. 48p.

Report upon the water rights of the Tlahualilo company, with special reference to the executive orders of July 1st and August 13th 1908, made by the Department of fomento, submitted to the trustees for the Tlahualilo bondholders. Severo Mallet-Prevost. New York, 1908. 243p.

Rules and regulations governing the determination of rights to the use of water in accordance with the water commission act. California. State water commission. Sacramento, California state printing office, 1921. 13p.

St. Mary and Milk rivers, measurement and apportionment of waters. Proceedings. International joint commission (U. S. and Canada). Washington, D. C., Government printing office, 1917. 4v. in 1.

Scope of state and federal legislation concerning the use of waters. C. E. Wright. Annals of the American academy of political and social science. v.33. p.566-582. May 1909.

Selected cases on water rights and irrigation law in California and western states. Gavin W. Craig. San Francisco, Bancroft-Whitney company, 1910. 374p.

Shasta river adjudication proceedings. Order determining and establishing the several rights by appropriation to the use of the waters of Shasta river and its tributaries, Siskiyou county, California. Sacramento, Cal., California state printing office, 1928. 236p.

State and national water laws, with detailed statement of the Oregon system of water titles. John H. Lewis. With discussion by Messrs. Clarence T. Johnston, L. J. LeConte. New York, 1913. 637-758p. Reprint from the American society of civil engineers. Transactions. v.76.

Statement by Dr. Nathan Boyd in re Elephant Butte (New Mexico) dam enterprise and General Anson Mills' International (El Paso) dam scheme. Proposed treaty with the republic of Mexico. Injunction suit. United States versus Rio Grande dam and irrigation company. Abstracts from official documents and from the decisions of the courts, etc. Washington, D. C., Judd & Detweiler, printers, 1902. 156p.

Supplemental argument in the matter of the measurement and apportionment of the waters of the St. Mary and Milk rivers and their tributaries in the United States and Canada, under article VI of the treaty of January 11, 1909, between the United States and Great Britain. Detroit, Mich., May 15 - 17, 1917. International joint commission (U. S. and Canada). Washington, D. C., Government printing office, 1917. 199p.

Supreme court of Nebraska decision affecting the rights of water-users. Irrigation age. v.31. p.90. April 1916.

Synopsis of the water law of 1913 as amended by chapter 253, statutes of 1915, comprising interpretations by the state engineer and rules, and requirements relating to the determination of existing rights, and the acquirement of new rights ... Issued by W. M. Kearney, state engineer. Carson City, Nev., State printing office, Joe Farnsworth, superintendent, 1915. 32p.

Tabulation of adjudicated rights in water division number 1-4. Compiled by Martha A. Kalitz, secretary of the State board of control ... State engineer's office. July 1st, 1908. Cheyenne, 1908. 4v. in 1.

Tabulation of water rights decrees, state of Colorado; Irrigation division no. 1; water district nos. 1,2,3,4,5,6,7,8,9,23,46,47,48,64 and 65. Compiled from certified copies of court decrees. Charles C. Hezmalhalch. Denver, col., Smith-Brooks printing company, 1920. 205p.

To adjust water-right charges on federal irrigation projects. Hearing before the Committee on irrigation and reclamation, U. S. Senate, seventy-first congress, second session on H.R. 8296, an act to amend the act of May 25, 1926, entitled "An act to adjust water-right charges, to grant certain other relief on the federal irrigation projects, and for other purposes". April 29, 1930. Washington, D. C., Government printing office, 1930. 30p.

Treatise on the law of irrigation, including the law of water-rights and the doctrine of appropriation of waters, as the same are construed and applied in the states and territories of the arid and semi-arid regions of the U. S. ; and also including the statutes of the respective states and territories, and decisions of the courts relating to those subjects. Olesson S. Kinney. 2d edition.

San Francisco, Bender-Moss co., 1912. 4v.

Treatise on the law of riparian rights as the same is formulated and applied in the Pacific states, including the doctrine of appropriation. John Norton Pomeroy. Revised and edited by Henry Campbell Black... St. Paul, Minn., West publishing co., 1887. 307p.

Treatise on the law of water rights as the same is formulated and applied in the Pacific states, including the doctrine of appropriation and the statutes and decisions relating to irrigation; being a revised and enlarged edition of "Pomeroy on riparian rights" with several additional chapters by Henry Campbell Black. St. Paul, 1893. 592p.

Unsettled problems of irrigation. K. Coman. American economic review. v.1. p.1-19. March 1911.

Use of water in irrigation in Wyoming and its relation to the ownership and distribution of the natural supply. B. C. Buffum. U. S. Department of agriculture. Office of experiment stations. Bulletin no.81. Washington, D. C., 1900. 56p.

Wasserwirtschaft und wasserrecht (einschliesslich der fischerei) in ihren beziehungen zur landwirtschaft. Gemeinverstandlich dargestellt. Erich Kern. Berlin, P. Parey, 1927. 98p.

Water code and its administration. Olympia, F. M. Lamborn, public printer, 1918. 53p. Washington. Hydraulic engineer. Bulletin no.1.

Water-right problems of Dear river. C. T. Johnston and J. A. Breckons. U. S. Department of agriculture. Office of experiment stations. Bulletin no.70. Washington, D. C., 1899. 40p.

Water-right problems of the Bighorn mountains. Elwood Mead. Washington, D. C., Government printing office, 1899. 62p. U. S. Geological survey. Water supply and irrigation paper no.23.

Water rights. Farming in South Africa. v.4. p.65. May 1929.

Water rights; an act providing for the supervision and use of the waters of the state and the regulations of the Wyoming board of control. n.p., 1891. 106p.

Water rights and irrigation, an act codifying and revising certain laws for determining and recording water rights. New law passed by the 6th session of the legislature of the state of Utah, 1905. n.p., Printed and for sale by the Deseret news, 1905. 32p.

Water rights and power sites in Idaho. Letter from the secretary of the interior, transmitting, in response to Senate resolution no.159, of January 27, 1910, information relative to water rights, power sites, etc., acquired on the public lands in Idaho. Washington, D. C., Government printing office, 1910. 14p. U. S. 61st congress. Senate document no.370.

Water rights determination from an engineering standpoint. Jay M. Whitlam. New York, John Wiley and sons, inc., 1918. 204p.

Water rights for irrigation. Ray Palmer Teele. In his Economics of land reclamation in the United States. 1927. p.255-289.

Water rights for irrigation; principles and procedure for engineers. S. T. Harding. Stanford university, Calif., Photolith reproduction by the Standord university press, 1936. 176p.

Water rights in Colorado and irrigation laws of 1899, 1901, 1903, measurement division and duty of water. E. L. Rogers. Denver, 1904. 24p.

Water rights in South Africa. Cyril Hall. Cape Town and Johannesburg, Juta and co., ltd., 1933. 322p.

Water rights in the western states; the law of prior appropriation of water as applied alone in some jurisdictions, and as, in others, confined to the public domain, with the common law of riparian rights for waters upon private lands. Federal, California and Oregon statutes in full, with digest of statutes of Alaska, Arizona, Colorado, Hawaii, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, Philippine Islands, South Dakota, Texas, Utah, Washington and Wyoming. Forms. Samuel C. Wiel. 3d edition ... revised and enlarged to June 1, 1911 ... San Francisco, Bancroft-Whitney company, 1911. 2v.

Water rights on interstate streams: the Platte river and tributaries. Results of investigation. R. P. Teelo. Water rights within the states. Elwood Mead. U. S. Department of agriculture. Office of experiment stations. Bulletin no.157. Washington, D. C., 1905. 118p.

Water rights on the Missouri river and its tributaries. Elwood Mead. U. S. Department of agriculture. Office of experiment stations. Bulletin no.58. Washington, D. C., 1899. 80p.

Water rights under the Common law and the Irrigation act, no.32 of 1906. Sir Henry Juta. Cape Town, J. C. Juta and co., 1907. 295p.

Water storage and the water code. G. E. P. Smith. Arizona. College of agriculture. Extension service. Circular no.26. Tucson, Ariz., 1918. 7p.

Water supply and utilization; an outline of hydrology from the viewpoint of the arid section of the United States together with an outline of water law and its administration as it has developed in the arid states. Donald M. Baker and Harold Conkling. New York, J. Wiley and sons, inc., 1930. 495p.

Waters of the Rio Grande and its tributaries. Letter from the secretary of the interior, transmitting, by direction of the President, orders and regulations of the Interior department touching use, appropriation or disposition for irrigation of the waters of the Rio Grande and its tributaries in Colorado and New Mexico. Washington, D. C., Government printing office, 1911. 197p. U. S. 62d congress. House. Document no.39.

Waters of the state. Alvin T. Embrey. Richmond, Va., Old Dominion press, 1931. 416p.

Western farmer's water right. R. P. Teele. U. S. Department of agriculture. Department bulletin no.913. Washington, D. C., 1920. 14p.

WATER SUPPLY.

Action of water and aqueous solutions upon soil carbonates. F. K. Cameron and J. M. Bell. U. S. Department of agriculture. Bureau of soils. Bulletin no.49. Washington, D. C., 1907. 64p.

Action of water and aqueous solutions upon soil phosphates. F. K. Cameron and J. M. Bell. U. S. Department of agriculture. Bureau of soils. Bulletin no.41. Washington, D. C., 1907. 58p.

Address to the people of Nevada on water storage and irrigation. F. G. Newlands. Reno, n.d. 19p.

Application of hydrodynamics to irrigation and drainage problems. O. W. Israelsen. California. Agricultural experiment station. Hilgardia. v.2. p.479-528. 1927.

Artesian irrigation: An antidote for alkaline waters. R. S. Symmonds. Sydney, 1909. 19p. New South Wales. Department of agriculture. Farmers' bulletin no.12.

Artesian irrigation. Scientific american. v.79. p.58. July 23, 1898. Method of irrigation used in South Dakota, where the supply is obtained from artesian wells, is described.

Artesian water for irrigation in Little Bitterroot valley, Montana. O. E. Meinzer. Washington, D. C., 1916. 37p. U. S. Geological survey. Water supply paper no.400-B.

- Artesian wells of Colorado and their relation to irrigation. L. G. Carpenter. Colorado. Agricultural experiment station. Bulletin no. 16. Fort Collins, Colo., 1891. 28p.
- Artesian wells of southern Wyoming; their history and relation to irrigation. J. D. Conley. Wyoming. Agricultural experiment station. Bulletin no. 20. Laramie, Wyo., 1894. 87-122p.
- Artesian wells upon the great plains; being the report of a geological commission appointed to examine a portion of the great plains east of the Rocky mountains and report upon the localities deemed most favorable for making experimental borings. U. S. Department of agriculture. Washington, D. C., Government printing office, 1882. 37p.
- Capacity of irrigation and drainage wells. H. E. Murdock. Montana. Agricultural experiment station. Bulletin no. 182. Bozeman, Mont., 1925. 16p.
- Capillary distribution of moisture in soil columns of small cross section. W. W. McLaughlin. U. S. Department of agriculture. Department bulletin no. 1221. Washington, D. C., 1924. 23p.
- Capillary movement of soil moisture. W. W. McLaughlin. U. S. Department of agriculture. Department bulletin no. 835. Washington, D. C., 1920. 70p.
- Certain relations of water to soil in irrigated land. Engineering news record. v.93. p.219. August 7, 1924.
- Character of the groundwater resources of Arizona. C. N. Catlin. Arizona. Agricultural experiment station. Bulletin no. 114. Tucson, Ariz., 1923. 173-293p.
- Classification and measurement of the different forms of water in the soil by means of the dilatometer method. G. J. Bouyoucos. Michigan. Agricultural experiment station. Technical bulletin no. 36. East Lansing, Mich., 1917. 48p.
- Condensation of moisture beneath the surface a solution of the water question in arid sections. James Manning. n.p., n.d. 15p.
- Conservation of snow for irrigation; its dependence on mountains and forests. J. E. Church, jr. Engineering and contracting. v.39. p.155-157. February 5, 1913. Discusses the problem of conservation of snow and gives useful data of water content of snow areas of different character.

Conservation of soil moisture and economy in the use of irrigation water.
E. W. Hilgard and R. E. Loughridge. California. Agricultural
experiment station. Bulletin no. 121. Berkeley, Cal., 1898.
12p.

Conservation of soil moisture by means of subsoil plowing. T. L. Lyon.
Nebraska. Agricultural experiment station. Bulletin no. 43.
Lincoln, Neb., 1895. 101-107p.

Conserving the water table in electric pumping. C. H. Lee. Journal
of electricity. v.44. p.271-274. March 15, 1920.

Construction of irrigation wells in Colorado. W. E. Code. Colorado.
Agricultural experiment station. Bulletin no. 415. Fort Collins,
Colo., 1935. 43p.

Controlling soil moisture for vegetable crops in Missouri. J. T. Rosa.
Missouri. Agricultural experiment station. Bulletin no. 204.
Columbia, Mo., 1923. 8p.

Controlling water for irrigation. Illustrated world. v.31. p.574.
June 1919.

Cooperative investigations in California. U. S. Reclamation service in
cooperation with the northern California irrigation association.
Report on Lower Pit river project. Prepared under the direction of the
Portland office of the U. S. Reclamation service, E. G. Hopson, Super-
vising engineer, T. H. Meens, engineer. July 1915. Washington,
D. C., Government printing office, 1915. 55p.

Damming cloudbursts for irrigation. V. W. Killick. Illustrated world.
v.26. p.404-405. November 1916.

Depleted ground water may be replenished by artificial spreading.
A. T. Mitchelson. U. S. Department of agriculture. Yearbook, 1935.
Washington, D. C., 1935. p.167-168.

Despatch from His Majesty's agent and consul-general at Cairo, inclosing a
report by Sir William Garstin, G. C. M. G., under-secretary of state
for public works in Egypt, upon the basin of the upper Nile
London, Printed for H. M. Stationery office, by Harrison and sons, 1904.
243p.

Despatch from the Earl of Cromer respecting the water supply of Egypt.
Presented to both houses of Parliament by command of His Majesty.
April 1907. London, Printed for H. M. Stationery office, by
Harrison and sons, 1907. 17p.

Determination of soil moisture by the method of multiple electrodes.
W. H. McCorkle. Texas. Agricultural experiment station.
Bulletin no. 426. College station, Tex., 1931. 20p.

Development and application of water near San Bernardino, Colton and
Riverside, Cal.... Joseph Barlow Lippincott. Washington, D. C.,
Government printing office, 1902. 2v. U. S. Geological
survey. Water supply and irrigation paper nos. 59-60.

Development of a water-supply from a gravel-bed. Edwin Duryea, jr.
Cornell civil engineer. v.16. p.65-70. May 1908.
Describes a development in the Santa Clara valley, California.

Development of water supplies for irrigation in Nevada by pumping from
underground sources. F. L. Bixby and G. Hardman. Nevada.
Agricultural experiment station. Bulletin no. 112. Reno, Nev.,
1928. 38p.

Distribution of water in the soil in furrow irrigation. R. H. Lough-
ridge. U. S. Department of agriculture. Office of experiment
stations. Bulletin no. 203. Washington, D. C., 1908. 63p.

Diversion dam on the Gila river at a site above Florence, Ariz. Excerpts
to be used by the Committee on Indian affairs, United States senate,
sixty-fourth congress, second session, relative to a provision in
the Indian appropriation bill providing for the construction of a
diversion dam and necessary controlling works for diverting water from
the Gila river at a site above Florence, Ariz... Washington, D. C.,
Government printing office, 1917. 38p.

Drought antidote for the north-west; or, The utilization of the artesian
resources of New South Wales. Percy Allen. Sydney, 1906.
95p.

Effect of paper mulches on soil temperature, soil moisture and yields
of certain crops. A. Smith. California. Agricultural
experiment station. Hilgardia. v.6. p.159-201.
November 1931.

Effect of pumping from a shallow well on the ground-water table. W. W.
Weir. Journal of agricultural research. v.11. p.339-357.
November 12, 1917.

Effect of temperature on movement of water vapor and capillary moisture
in soils. George John Bouyoucos. Journal of agricultural
research. v.5. p.141-172. October 25, 1915.

Einfluss von Rieselfeldanlagen auf die Grundwasserverhaeltnisse der
umgebung. F. Reinhold. Gesundheits-ingenieur. v.52.

p.1-7, 25-29. January 5, 12, 1929. Effect of irrigated field on groundwater conditions of neighboring lands. Records and mathematical analyses of observations on effect of sewage-water irrigation of 200 hectare field upon groundwater conditions of neighboring lower-lying meadow 455 hectares in area.

Engineering phases of water conservation. F. E. Trash. California.
Department of agriculture. Bulletin. v.22. Sacramento, Cal.,
1933. p.74-77.

Establishing snow courses and making snow surveys. G. D. Clyde. Utah.
Agricultural experiment station. Circular no. 91. Logan, Utha,
1930. 16p.

Exploratory drilling for water and use of ground water for irrigation in Steptoe valley; with introduction by O. E. Meinzer and others.
Washington, D. C., 1920. 70p. U. S. Geological survey.
Water supply paper no. 467.

Extending dug wells below water level; methods used in irrigation practice in Arizona. G. E. P. Smith. Engineering and contracting. v.62.
p.778. October 8, 1924.

Farm water supply. F. H. Peters. Ottawa, J. de Labroquerie Tache,
printer to the King's most excellent majesty, 1919. 26p.
Canada. Department of the interior. Reclamation service.
Irrigation division. Bulletin no. 5.

Field records relating to subsoil water. W. J. McGee. U. S. Department of agriculture. Bureau of soils. Bulletin no. 93. Washington, D. C., 1913. 40p.

Field study of hydrological properties of irrigated soils. S. S. Mikhailov. Vestnik irrigatziyi. no. 7. p.57-87. July 1929.
Report on studies made at Mozdok experiment station on Caucasus mountains, with special reference to determination of porosity, water capacity, capillarity, critical moisture content and evaporation; duty of water determinations for grains, cotton and corn. In Russian.

Flow in California streams, being appendix "A" to report to the legislature of 1923 on Water resources of California. Sacramento, Cal.,
California state printing office, 1923. 557p. California.
Department of public works. Division of engineering and irrigation.
Bulletin no. 5.

Geologic basis for artesian prediction. N. H. Darton. Engineering record. v.57. p.686. May 30, 1908. Explains some of the fundamental principles which guide geologists.

- Geology and water resources of the Snake river plains of Idaho. I. C. Russel. Washington, D. C., 1902. 192p. U. S. Geological survey. Bulletin no. 199.
- Getting the most from rainfall. P. H. Stewart. Nebraska. Board of agriculture. Report, 1933. Lincoln, Neb., 1934. p.724-737.
- Groundwater. W. Gardner and others. Utah. Agricultural experiment station. Bulletin no. 253. Logan, Utah, 1934. 40p.
- Ground water fluctuations at Kearny park, California. W. W. Weir. California. Agricultural experiment station. Hilgardia. v.1. p.133-144. June 1925.
- Ground water for irrigation on Camas prairie, Camas and Elmore counties, Idaho. A. M. Piper. Idaho. Bureau of mines and geology. Pamphlet no. 15. 46p. Deals with geography, physiography and geology of district; surface-water resources; irrigation problems; well-drilling technique,
- Ground water resources of southern San Joaquin valley. S. T. Harding. Sacramento, Cal., California state printing office, 1927. 146p. California. Department of public works. Division of engineering and irrigation and of water rights. Bulletin no. 11.
- Groundwater supply and irrigation in the Rillito valley. G. E. P. Smith. Arizona. Agricultural experiment station. Bulletin no. 64. Tucson, Ariz., 1910. 81-244p.
- Ground waters and irrigation enterprises in the foothills belt, southern California. Walter C. Mendenhall. Washington, D. C., Government printing office, 1908. 180p. U. S. Geological survey. Water-supply paper no. 219.
- Heavy plains soil moisture problems. H. H. Fennell. Oklahoma. Agricultural experiment station. Bulletin no. 193. Stillwater, Okla., 1929. 8p.
- History and science of irrigation, artesian and petroleum and deep well drilling. Robert Kittle. Fremont, Neb., 1895. 99p.
- Hydrological investigations for the third water works for Leipzig. A. Thiem and Dr. Tugr. G. Thiem. Engineering record. v.58. p.362. September 26, 1903. Describes a method of determining the capacity of underground water basins.
- Hydrologie agricole et alimentation en eau des exploitations rurales. Frederic Dienert. Paris, J. B. Bailliere et fils, 1932. 462p.

- Hydrology and ground water; a practical text-book for the use of civil engineers, surveyors, students, and all those who deal with the control of water. J. M. Lacey. London, C. Lockwood & son, 1926. 159p.
- Indian engineering, relating to irrigation, water supply of town, roads and buildings. William Lunisden Strange. London, G. Routledge & sons, ltd., 1923. 214p.
- Influence of head on the movement of water in gila clay and gila clay loam. C. W. Botkin. Agricultural engineering. v.11. p.209-212. June 1930. Report on experiments conducted with one-foot depths of pulverized air-dried soils flocculated by aluminum sulphate and deflocculated by sodium carbonate; head does not greatly influence rate of water movement, and is of little consequence compared with effect of compacting or of flocculation; large increase in head of irrigation water does not assist in removal of alkali from heavy compact soils and may hinder process slightly if heavy soils are very loose.
- Initial soil moisture and crop yield. H. H. Finnell. Oklahoma. Agricultural experiment station. Bulletin no. 192. Stillwater, Okla., 1929. 8p.
- Interstate royal commission on the river Murray, representing the states of New South Wales, Victoria, and South Australia. Report of the commissioners, with minutes of evidence, appendices, and plans... Sydney, W. A. Gullick, government printer, 1902. 359p.
- Irrigation and soil moisture investigation in western Oregon. H. D. Scudder and W. L. Powers. Oregon. Agricultural experiment station. Bulletin no. 122. Corvallis, Ore., 1914. 110p.
- Irrigation and water storage in the arid regions. Letter from the secretary of war, transmitting a report of the chief signal officer of the army, in response to House resolution dated May 23, 1890, relating to irrigation and water storage in the arid regions... Washington, D. C., Government printing office, 1891. 356p. U. S. 51st congress. House. Document no. 287.
- Irrigation and water-supply; a practical treatise on water-meadows, sewage irrigation and warping; the construction of wells, ponds, and reservoirs; and raising water by machinery for agricultural and domestic purposes. John Scott. London. C. Lockwood and co., 1904. 149p.
- Irrigation in relation to soil moisture and plant growth. F. J. Veihmeyer. Agricultural engineering. v.8. p.109-111. May 1927. Study of behavior of soil moisture as regards its movement in soil due to capillarity, evaporation from exposed soil surfaces and reaction of certain plants to different amounts of soil moisture under California conditions.

- Irrigation resources of California and their utilization. Frank Adams.
U. S. Department of agriculture. Office of experiment stations.
Bulletin no. 254. Washington, D. C., 1913. 95p.
- Irrigation water supply increased by storing flood water underground.
A. T. Mitchelson. U. S. Department of agriculture. Yearbook,
1931. Washington, D. C., 1931. p.331-334.
- Letter from the secretary of agriculture, transmitting a report on the
preliminary investigation to determine the proper location of artesian
wells within the area of the ninety-seventh meridian and east of the
foot-hills of the Rocky mountains ... Washington, D. C., Govern-
ment printing office, 1890. 398p. U. S. 51st congress. Senate.
Document no. 222.
- Lysimeter investigations; water movement, soil temperatures, and root
activity under apple trees. R. C. Collison. New York. Agri-
cultural experiment station. Technical bulletin no. 237. Geneva,
N. Y., 1935. 31p.
- Method of sealing a battery of irrigation wells. J. W. Swaren.
Engineering and contracting. v.42. p.143-144. August 5, 1914.
Describes sealing device employed.
- Methods of alleviating water shortage on irrigation projects. G. D.
Clyde. Agricultural engineering. v.13. p.37-41, 80.
February, March 1932. Water-shed management; forecasting water
supplies; snow-cover-runoff relations; supplemental water supplies
by pumping; replenishing groundwater supplies artificially; dis-
tribution and application of water; fall and winter irrigation.
- Moisture and fertility relations of subsoil variations in heavy silt
loam soil at Goodwell, Okla. H. H. Finnell. Oklahoma. Agri-
cultural experiment station. Bulletin no. 214. Stillwater, Okla.,
1933. 11p.
- Moisture content and physical condition of soils. F. K. Cameron and
F. E. Gallagher. U. S. Department of agriculture. Bureau of
soils. Bulletin no. 50. Washington, D. C., 1908. 70p.
- Moisture equivalents of soils. Lyman J. Briggs and John W. McLane.
U. S. Department of agriculture. Bureau of soils. Bulletin no.
50. Washington, D. C., 1907. 23p.
- Moisture penetration studies. M. H. Kimball. California cultivator.
v.78. p.291- March 26, 1932.
- Movement and retention of water in soils. L. J. Briggs. U. S. Depart-
ment of agriculture. Yearbook, 1898. Washington, D. C., 1899.
p.399-404.

- Movement of water in irrigated soils. C. S. Scofield. Journal of agricultural research. v.27. p.617-694. March 1, 1924.
- Movement of water in irrigated soils. J. A. Widtsoe and W. W. McLaughlin. Utah. Agricultural experiment station. Bulletin no. 115. Logan, Utah, 1912. 197-268p.
- New developments in well boring and irrigation in eastern South Dakota, 1896. Nelson Horatio Darton. Washington, D. C., Government printing office, 1897. 561-615p. Extract from the 18th annual report of the U. S. Geological survey, 1896-97, pt. IV.
- Nile projects. Sir William Willcocks. Cairo, Printing-office of the French institute of oriental archaeology, 1919. 184p.
- Official correspondence, November 1st, 1919, to December 31, 1919. Cairo, Printing-office of the French institute of archaeology, 1920. 24p.
- Note on the irrigation works of Egypt and the improvements to be made to them. Egypt. Public works department. Cairo, Printed at the Britannia press, 1884. 18p.
- Obras de derivacion de aguas en el bordo del "Tajo de Pescaderos". G. Gonzalez. Revista Mexicana de ingenieria y arquitectura. v.6. p.373-395. August 15, 1928. Work for the derivation of water in the border region of "Tajo de Pescaderos". Describes important construction work that will render cultivable large area of Mexican territory adjacent to California and Arizona; water drawn from Colorado river by system of siphons; centrifugal vacuum pump charges first siphon; this siphon is used to start second, and so on; five siphons can be charged in 36 min.; construction and operating costs.
- Percolation of water in soils and its relation to irrigation. E. S. West. Agricultural gazette of New South Wales. v.38. p.389-399. May 1927.
- Phase of ground water problems in the west. W. C. Mendenhall. Economic geology. v.4. p.35-45. January, February 1909. Study of the ground waters in arid or semi-arid regions.
- Plant association and survival, and the building of moisture in semi-arid soils. J. F. Bronzeale and F. J. Crider. Arizona. Agricultural experiment station. Technical bulletin no. 53. Tucson, Ariz., 1934. 95-123p.
- Policies governing the ownership of return waters from irrigation. W. A. Hutchins. U. S. Department of agriculture. Technical bulletin no. 439. Washington, D. C., 1934. 48p.

- Possibilities and limitations of wells for irrigation. H. H. Musselman. Michigan. State horticultural society. Report, 1934. East Lansing, Mich., 1935. p.88-92.
- Preliminary report on conservation and control of flood water in Coachella valley, California. C. E. Tait ... Sacramento, Cal., California state printing office, 1917. 3lp. California. Department of engineering. Bulletin no. 4.
- Proceedings of the first Water congress of Southern California, held at Chamber of commerce, Los Angeles, March 13, 1905. Los Angeles, 1905. 63p.
- Progress report. U. S. Department of agriculture. Office of irrigation inquiry. Washington, D. C., Government printing office, 1891. 2 pts bound in 1 v. U. S. 51st congress. Senate. Document no. 53.
- Pumping from wells for irrigation. P. A. Ewing. U. S. Department of agriculture. Farmers' bulletin no. 1404. Washington, D. C., 1934. 28p.
- Rainfall and irrigation. Edward A. Deale. U. S. Department of agriculture. Yearbook, 1902. Washington, D. C., 1903. p.627-642. Separate no. 294.
- Rainfall intensity-frequency data. D. L. Yarnell. U. S. Department of agriculture. Miscellaneous publication no. 204. Washington, D. C., 1935. 67p.
- Rainfall reservoirs and water supply. Sir Alexander R. Binnie ... Founded upon the Chadwick trust lectures delivered by him at the Institution of civil engineers in February 1912. New York, D. Van Nostrand co., 1913. 157p.
- Regelung der wasserwirtschaftlichen verhältnisse und ihre bedeutung für unsere landwirtschaft. Vortrag des konzipisten der Deutschen sektion des Landeskulturrates für das konigreich Böhmen Andreas Meisner in der delegierten-versammlung des Deutschen landwirtschaftl. zentralverbandes für Böhmen am 29. märz 1908. Prag, Verlag der Deutschen sektion des Landeskulturrates für das konigreich Böhmen in Prag, 1908. 36p.
- Regulation of the Fen ho for flood protection and conservancy of winter flow as an aid to irrigation. O. J. Todd. Far eastern review. v.30. p.165-171, 221-230. April-May, 1934.
- Relation of rainfall to run-off. George W. Rafter. Washington, D. C., Government printing office, 1903. 104p. U. S. Geological survey. Water supply and irrigation paper no. 80.

- Relation of the moisture equivalent of soils to the moisture properties under field conditions of irrigation. S. T. Harding. Soil science. v.8. p.303-312. October 1919.
- Relations between crop-yields and precipitation in the Great Plains area; crop rotations and tillage methods. E. C. Chilcott. U. S. Department of agriculture. Miscellaneous circular no. 81. Washington, D. C., 1931. 163p.
- Relative efficiency of Talus Slopes and Forests in conserving snow for irrigation. J. E. Church, jr. Engineering and contracting. v.40. p.441-443. October 15, 1913. Gives a letter from G. L. Shurway discussing points brought forward.
- Report of the special agent in charge of the artesian and underflow investigations and of the irrigation inquiry for 1891. Richard J. Hinton. U. S. Department of agriculture. Secretary's report, 1891. Washington, D. C., 1892. p.439-450.
- Report on Iron canyon project, by the office of the U. S. Reclamation service, at Portland, Oregon, October, 1914, and report by Board of review appointed by the secretary of the interior, November 1914. Portland, Press of Beach-Thomas co., 1914. 147p.
- Report on Iron canyon project, California. Homer J. Gault ... and W. F. McClure ... May, 1920. Washington, D. C., Government printing office, 1921. 76p.
- Report on irrigation. U. S. Department of agriculture. Office of irrigation inquiry. Washington, D. C., Government printing office, 1892. 4 pts. bound in 2v. U. S. 52d congress. Senate. Document no. 41.
- Report on perennial irrigation and flood protection for Egypt. W. Willcocks ... Cairo, National printing office, 1894. 313p.
- Report, State water problems conference ... November 25, 1916. Sacramento, Cal., California state printing office, 1916. 125p.
- Report to the Federal power commission on the storage resources of the south and middle forks of Kings river, California. June 5, 1930. Washington, D. C., Government printing office, 1931. 57p.
- Report upon the basin of the Upper Nile, with proposals for the improvement of that river. Sir William Garstin... To which is attached a Report upon Lake Tsana and the rivers of the eastern Soudan. C. E. Dupuis ... Cairo, National printing department, 1904. 196p.

Reservoirs for irrigation, water-power and domestic water-supply; with an account of various types of dams and the methods, plans and cost of their construction ... James Dix Schuyler ... 3d edition, revised and enlarged. New York, J. Wiley & sons, 1903. 573p.

Return-flow water from irrigation developments. R. I. Meeker.
Engineering news record. v.89. p. 105-108. July 20, 1922.
Discussion of return seepage water from irrigation to water diverted; statistics of Colorado valleys indicate one acre-foot per acre recoverable, maximum in summer and fall.

Return of seepage water to the lower south Platte river in Colorado.
R. L. Parshall. Colorado. Agricultural experiment station.
Bulletin no. 279. Fort Collins, Colo., 1922. 72p.

Return water and drainage recovery from irrigation - a symposium.
American society of civil engineers. Transactions. v.94.
p.328-344. 1930.

River regulation, flood control, and water conservation and utilization.
Hearings before the Committee on commerce, United States senate, sixty-fourth congress, second session, on H.R. 14777, an act to provide for the control of the floods of the Mississippi river and of the Sacramento river, California, and for other purposes, and S.5736, a bill to promote interstate commerce, agriculture, and the general welfare by providing for the development and control of waterways and water resources, for water conservation, for flood control, prevention, and protection; for the application of flood waters to beneficial uses; and for cooperation in such work with states and other agencies, and for other purposes, together with hearings, reports, and documents of preceding congresses ... Dec. 19-22, 1916. Washington, D. C., Government printing office, 1917. 430p.

River regulation, flood control, and water conservation and utilization.
Hearing before the subcommittee of the Committee on commerce, United States senate, sixty-fourth congress, first session, on S. 5736, a bill to promote interstate commerce, agriculture, and the general welfare by providing for the development and control of waterways and water resources and for other purposes. Washington, D. C., Government printing office, 1916. 154p. U. S. 64th congress, Senate. Document no. 550.

Salto de agua y regadio. A. G. Vedoya. Revista de obras publicas. v.76. p.56-57. February 15, 1928. Heads and irrigation.
Tendency to transform dry into irrigated soils leads to question of utilizing rivers, when possible, to form heads of water and preference to be given in awarding grants for this purpose; gives formula for theoretical wealth available in flow of river for irrigation.

- San Carlos irrigation project, Arizona. Report to the secretary of war of a board of engineer officers, United States army, under Indian appropriation act of August 24, 1912, on the San Carlos irrigation project, Arizona ... Washington, D. C., Government printing office, 1914. 168p. U. S. 63d congress: House. Document no. 791.
- Schwankungen der grundwasserstände und der quellenausflüsse. Chr. Metzger. Gesundheits-ingenieur. v.31. p.501-511. August 8, 1908. Variations in ground water level and the flow of springs. A record of extensive observations.
- Sinking of wells on desert lands. Hearings before the Committee on irrigation of arid lands, House of representatives, on H. R. 24074, a bill to encourage and promote sinking of wells on desert lands in the state of New Mexico ... Washington, D. C., Government printing office, 1912. 1 pamphlet.
- Snow-melting characteristics. G. D. Clyde. Utah. Agricultural experiment station. Bulletin no. 231. Logan, Utah, 1931. 47p.
- Snow surveys for predicting stream flows. J. Cecil Alter. Engineering news. v.69. p.1110-1113. May 29, 1913. Describes the instruments and surveys, and explains the practical use to which the data may be applied.
- Soil moisture. G. H. Failyer and J. T. Willard. Kansas. Agricultural experiment station. Bulletin no. 68. Manhattan, Kan., 1897. 75-101p.
- Soil moisture. J. T. Willard and R. W. Clothier. Kansas. Agricultural experiment station. Bulletin no. 89. Manhattan, Kan., 1899. 22p.
- Soil moisture: its importance and management. J. A. Jeffery. Michigan. Agricultural experiment station. Bulletin no. 219. East Lansing, Mich., 1904. 31-40p.
- Soil moisture and after-cultivation. Virginia. Department of agriculture and immigration. Bulletin no. 109. Richmond, Va., 1916. p.30-35.
- Soil moisture and irrigation investigations in eastern apple orchards. J. R. Magness and others. U. S. Department of agriculture. Technical bulletin no. 491. Washington, D. C., 1935. 36p.
- Soil moisture is an important factor in the tillage of land. L. B. Olmstead. U. S. Department of agriculture. Yearbook, 1927. Washington, D. C., 1928. p.593-596.
- Soil moisture studies under dry-farming. F. S. Harris and J. W. Jones. Utah. Agricultural experiment station. Bulletin no. 158. Logan, Utah, 1917. 51p.

Soil moisture studies under irrigation. F. S. Harris and A. F. Bracken. Utah. Agricultural experiment station. Bulletin no. 159. Logan, Utah, 1917. 26p.

Some studies of the need for irrigation; rainfall chart indicates supplemental water may be advantageous. O. E. Robey. Michigan. Agricultural experiment station. Quarterly bulletin. v.14. p.71-76. November 1931.

South costal basin. A cooperative symposium of activities and plans of public agencies in Los Angeles, Orange, San Bernardino and Riverside counties, leading to conservation of local water supplies and management of underground reservoirs. Sacramento, Cal., California state printing office, 1930. 79p. California. Department of public works. Division of water resources. Bulletin no. 32.

South coastal basin investigation. Records of ground water levels at wells, prepared in cooperation with all public bodies - cities, towns, water companies, and protective associations - in the area, as well as many individuals. Sacramento, Cal., California state printing office, 1932. 590p. California. Department of public works. Division of water resources. Bullotin no. 39.

Storage and pondage. William T. Taylor. In his Practical water-power engineering. 1925. p.47-69.

Storage and use of soil moisture. W. W. Burr. Nebraska. Agricultural experiment station. Bulletin no. 140. Lincoln, Neb., 1914. 20p.

Storage of flood waters. Robert L. Hargrove. Madera, Cal., Madera county chamber of commerce, 1912. 43p.

Storage of water for irrigation. Scientific american supplement. v.51. p.21036. February 23, 1901.

Storage of flood waters for irrigation. A. M. Strong. American society of civil engineers. Transactions. v.77. p.67-95. 1914. Study of the supply available from southern California streams.

Storage of water for irrigation purposes. Samuel Fortier and F. L. Dixby. U. S. Department of agriculture. Office of experiment station. Bulletin no. 249. Washington, D. C., 1912. 2v.

Storage of water in soil and its utilization by spring wheat. O. R. Mathews and E. C. Chilcott. U. S. Department of agriculture. Department bulletin no. 1139. Washington, D. C., 1923. 28p.

Storage of winter precipitation in soils. J. A. Widtsoe. Utah. Agricultural experiment station. Bulletin no. 104. Logan, Utah, 1908. 281-316p.

- Storing moisture in the soil. W. W. Burr. Nebraska. Agricultural experiment station. Bulletin no. 114. Lincoln, Neb., 1910. 52p.
- Stream regulation with reference to irrigation and power. J. C. Stevens. American society of civil engineers. Transactions. v.90. p.958-993. 1927.
- Studies in water conservation. S. H. McCrory. California cultivator. v.80. p.213. April 29, 1933.
- Studies on capacities of soils for irrigation water, and on a new method of determining volume weight. O. W. Israelsen. Journal of agricultural research. v.13. p.1-36. April 1, 1918.
- Studies on the movement of soil moisture. Edgar Buckingham. U. S. Department of agriculture. Bureau of soils. Bulletin no. 38. Washington, D. C., 1907. 61p.
- Study of the production and movement of nitric nitrogen in an irrigated soil. Robert Stewart and J. E. Greaves. Utah. Agricultural experiment station. Bulletin no. 106. Logan, Utah, 1909. 69-96p.
- Subsoil water of central United States. W. J. McGee. U. S. Department of agriculture. Yearbook, 1911. Washington, D. C., 1912. p.479-490. Separate no. 535.
- Subterranean waters. Engineer. v.105. p.496-497. May 15, 1908. Inferences and illustration based on a diagram and record, made by Prof. Adams, of registrations made in a bore-hole sunk in St. Paul's churchyard.
- Sudd region of the White Nile and the harnessing of its waters. Sir William Willcocks ... and John Wells ... Cairo, Printing-office of the French institute of oriental archaeology, 1918. 30p.
- Summary report on the water resources of California and a coordinated plan for their development: A report to the legislature of 1927. Paul Bailey. Sacramento, Cal., California state printing office, 1927. 49p. California. Department of public works. Division of engineering and irrigation. Bulletin no. 12.
- Supplemental report on water resources of California. Paul Bailey. Sacramento, Cal., California state printing office, 1925. 51p. California. Department of public works. Division of engineering and irrigation. Bulletin no. 9.
- Surface and sub-surface waters of Yakima and Klamath reclamation projects. C. C. Wright. Washington: Agricultural experiment station. Bulletin no. 228. Pullman, Wash., 1928. 45p.

- Terra Bella irrigation project obtains supply from wells and delivers water under pressure through steel pipe lines. S. E. Kieffer. Engineering and contracting. v.49. p.360-362. April 10, 1918. Account of a \$1,000,000 irrigation development depending entirely on underground water.
- Tillage in its relation to soil moisture. C. C. Thom. Washington. Agricultural experiment station. Popular bulletin no. 22. Pullman, Wash., 1909. 4p.
- Transmission and delivery of water to remote irrigation districts. G. C. Baldwin. Modern irrigation. v.3. p.20-21, 88-89. September 1927. Impounding of great volumes of water at convenient locations necessitates long-distance transmission.
- Tube wells and agriculture. S. Leggett. Agricultural journal of India. v.23. p.390-393, 432-434. September-November 1928
- Underground water storage in California's south coastal basin. Engineering news record. v.115. p.733-738. November 28, 1935.
- Underground water supply of Indiana. F. G. Clapp. Engineering record. v.58. p.147-150. August 8, 1908. Study of this district, giving a classification of underground supplies.
- Underground waters for farm use. Myron L. Fuller. Washington, D. C., Government printing office, 1910. 58p. U. S. Geological survey. Water supply paper no. 255.
- Use of small water supplies for irrigation. Samuel Fortier. U. S. Department of agriculture. Yearbook, 1907. Washington, D. C., 1908. p.409-424. Separate no. 458.
- Use of underground water for irrigation at Pomona, Calif. C. E. Tait. U. S. Department of agriculture. Office of experiment station. Bulletin no. 236. Washington, D. C., 1912. 99p.
- Use of water from King's river, California, 1918. Harry Barnes. Sacramento, Cal., California state printing office, 1920. 119p. California. Department of engineering. Bulletin no. 7.
- Using Los Angeles aqueduct water for irrigation purposes. C. W. Geigler. Municipal and county engineer. v.55. p.24-26. July 1918. Arrangements to furnish adequate water to irrigate the beet fields.
- Utah snow sampler and scales for measuring water content of snow. G. D. Clyde. Utah. Agricultural experiment station. Circular no. 99. Logan, Utah, 1932. 8p.

- Value of snow surveys as related to irrigation projects. A. H. Thiessen. U. S. Department of agriculture. Yearbook, 1911. Washington, D. C., 1912. p.391-396. Separate no. 578.
- Value of snow surveys in irrigation: methods for predicting run-off from snow-clad mountain areas. J. C. Alter. Engineering magazine. v.45. p.737-740. August 1913.
- Verhalten des bodens ~~zum~~ wasser mit besonderer berucksichtigung der grundwasserbildung. Chr. Metzger. Gesundheits ingenieur. v.31. p.241-251. April 18, 1908. Retention of water by the soil with special reference to the formation of ground water.
- Water capacity of irrigated soils. O. W. Israelson and F. L. West. Utah. Agricultural experiment station. Bulletin no. 183. Logan, Utah, 1922. 24p.
- Water conservation. E. L. Koethen. California cultivator. v.54. p.727. May 1, 1920.
- Water conservation in southern California; symposium. California. Department of agriculture. Bulletin. v.22. Sacramento, Cal., 1933. p.59-74.
- Water-holding capacity of irrigated soils. O. W. Israelson and F. L. West. Utah. Agricultural experiment station. Bulletin no. 183. Logan, Utah, 1922. 24p.
- Water penetration in gumbo soils of the Belle Fourche reclamation project. O. R. Mathews. U. S. Department of agriculture. Department bulletin no. 447. Washington, D. C., 1916. 12p.
- Water resources of California. A report to the legislature of 1923. Sacramento, Cal., California state printing office, 1923. 55p. California. Department of public works. Division of engineering and irrigation. Bulletin no. 4.
- Water resources of the state of Colorado. Abraham Lincoln Fellows. Washington, D. C., Government printing office, 1902. 151p. U. S. Geological survey. Water-supply and irrigation paper no. 74.
- Water resources of Tulare county and their utilization. 1922. Sacramento, Cal., California state printing office, 1922. 155p. California. Department of public works. Division of engineering and irrigation. Bulletin no. 3.
- Water storage, Cache creek, California. Albert E. Chandler. Washington, D. C., Government printing office, 1901. 48p. U. S. Geological survey. Water-supply and irrigation paper no. 45.

- Water storage conditions in India. S. K. Gurtu. World power conference. Transactions, 1924. v.4. p.232-237.
- Water supplies in southern California. J. L. Van Ornum. Journal of the Association of engineering societies. v. 18. p. 128-140. February 1897. Consideration of the physical characteristics of this region, with a study from personal investigations made eighteen months ago in the San Gabriel and San Bernardino valleys. The chief mode of development is by tunneling, through it contains examples of all important methods.
- Water supply and irrigation in Nevada. L. H. Taylor. Nevada. Agricultural experiment station. Bulletin no. 52. Reno, Nev., 1902. 64p.
- Water-supply engineering. The designing, construction, and maintenance of water-supply systems, both city and irrigation. A. Prescott Folwell. 3d edition. New York, J. Wiley & sons, 1917. 576p.
- Water supply for irrigation. Frederick Haynes Newell. Washington, D. C., Government printing office, 1894. 99p. Extract from the 13th annual report of the director of the U. S. Geological survey, 1891-92, part III.
- Water supply in Nebraska. O. V. P. Stout. Nebraska. Agricultural experiment station. Bulletin no. 41. Lincoln, Neb., 1895. 153-172p.
- Water supply of the soil. A. R. Whitson and H. B. Hendrick. U. S. Department of agriculture. Department bulletin no. 355. Washington, D. C., 1916. p.24-31.
- Water survey of Cimarron county, Oklahoma. H. W. Houghton. Panhandle. Agricultural experiment station. Bulletin no. 38. Goodwell, Okla., 1932. 29p.
- Water table variations; causes and effects. A. B. Ballantyne. Utah. Agricultural experiment station. Bulletin no. 144. Logan, Utah, 1916. 22p.
- Waters of North Dakota. E. F. Ladd. North Dakota. Agricultural experiment station. Bulletin no. 66. Agricultural College, N. D., 1905. 559-571p.
- Waters of Rio Grande. W. P. Headden. Colorado. Agricultural experiment station. Bulletin no. 230. Fort Collins, Colo., 1917. 62p.
- What happens to ground water and why. S. R. Winters. Scientific American. v.124. p.345. April 30, 1921.

Well irrigation for small farms. R. M. Brereton. Portland, Ore.,
Passenger dept., Oregon railroad and navigation co., Southern
Pacific company lines in Oregon, 1909. 61p.

Wells for irrigation. D. J. Whitney. California cultivator. v.63.
p.51. July 19, 1924.

Wells of southern California. Scientific american supplement.
v.53. p.21918. March 22, 1902.

ADYSSINIA.

Regulation of the Tsana lake. Engineering. v.124. p.620-621.
November 11, 1927.

AFRICA.

L'agriculture algérienne en présence du problème de l'irrigation. P.
Berthault. Academie d'agriculture de France. Comptes rendus.
v.22. p.827-828. October 14, 1936.

L'aménagement des eaux en Algérie. A. Sauzède. Journal des débats.
v.35, part 1. p.28-29. January 6, 1928.

Annual report. 1927 - date. South Africa. Irrigation commission
Cape Town, 1928. - date.

Atlantropa. Herman Sörgel. Zürich, Fretz & Wasmuth a.g., 1932. 143p.

Duchuberg irrigation works on Orange river, Prieska. Report on the
proposed Duchuberg canal from the Orange river. W. D. Gordon.
To which is appended a report by Mr. Cyril Crowther ... shewing an
estimate of quantities and an abstract of cost. Cape Town, Cape times
limited, government printers, 1906. 11p.

Comparison de l'irrigation superficielle et de l'irrigation souterraine
dans le Sud-Algérie. G. Chevalier. Academie d'agriculture de
France. Comptes rendus. v.21. p.682-686. May 15, 1935.

Comptes rendus du Congrès de l'eau en Crau à Marseille, du 29 juin au 1
juillet 1930; abstract. L. Roule. Academie d'agriculture de
France. Comptes rendus. v.17. p.619-621. May 27, 1931.

Le Congrès de la rose et de l'oranger au Sahara. L. Mangin. Revue
générale des sciences pures et appliquées. v.41. p.457-460.
August 15, 1930.

Correspondence respecting the Gezira irrigation project. London,
Printed and published by H. M. Stationery office, 1924. 57p.

Cotton growing in the Gezira. J. Cromarty-Tulloch. Near east. v.43.
p.747-748. September 20, 1934.

La création de fermes modèles et de services d'hydraulique agricole dans
l'Afrique occidentale française. Académie d'agriculture de France.
Comptes rendus. v.6. p.275-283. March 10, 1920.

Douglas irrigation works on Vaal river, Griqualand west. Description of
scheme and information regarding the whole works as completed to
December 1898, with plan and photographs. Cape Town, W. A. Richards
and sons, government printers, 1899. 13p.

Effects of irrigation on olive production in Tunisia. R. Marès.
International review of the science and practice of agriculture.
v.11, no. 2. p.199-200. February 1920.

First and second reports of the Select committee on irrigation matters
with proceedings and minutes of evidence. Printed by order of the
House of assembly, May 1931. Cape Town, Cape times limited, 1931.
11p.

First [second] report of the Select committee on irrigation matters with
proceedings and minutes of evidence. Printed by order of the House
of assembly, March [May] 1934. Cape Town, Cape times limited, 1934.
2v.

First [third (final)] report of the Select committee on irrigation schemes.
Cape Town, Cape times limited, 1928. 3v.

First report of the Special irrigation commission. Cape Town, Cape
times limited, government printers, 1926. 51p.

First (third and final) reports of the irrigation finance commission.
Cape Town, Cape times limited, government printers, 1925-26. 3v.

Gezira canal. Statistics of water consumption. Sudan. Irrigation
department. 1929/30 - 1930/31. Khartoum, 1930-31.

Hag-Abdalla irrigation pumping station in the Sudan. Sulzer technical
review. no. 1. p.12-13. 1927.

Hartz river valley irrigation scheme. Report of H. C. Litchfield dated
respectively 5th August and 12th September, 1899. Cape Town,
W. A. Richards & sons, 1899. 53p.

- L'hydraulique agricole dans la Tunisie méridionale. Rapport présenté à M. Alapetite, résident général de France à Tunis. P. Penet. Tunis, Société anonyme de l'imprimerie rapide, 1913. 212p.
- L'hydraulique agricole au Maroc. Journal des débats. v.35, part 1. p.191-193. February 3, 1928.
- L'hydraulique en Tunisie et les grands barrages réservoirs. Résumé des études & projets. Jean Coignet. Tunis, Imprimerie centrale G. Guinle & cie, 1917. 143p.
- Hydrologie du Sahara Algérien. Georges Rolland. Paris, 1894. 425p.
- Innovation hardie en Algérie. A. Bastet. Journal d'agriculture pratique. v.65. p.225-228. March 14, 1936.
- L'irrigation, ses conditions géographiques, ses modes et son organisation dans la Péninsule Iberique et dans l'Afrique du Nord. Jean Brunhes. Paris, C. Naud, 1902. 579p.
- L'irrigation dans la vallée du Niger. Barois. Académie d'agriculture de France. Comptes rendus. v.10. p.130-135. February 6, 1924.
- Irrigation in the Sudan. Percy F. Martin. Engineer. v.115. p.109-110. January 31, 1913. Maps and description of this great work, the difficulties and present progress.
- Irrigation in Tunisia. International review of the science and practice of agriculture. v.13, no. 10. p.1194-1197. October 1922.
- Irrigation of the Sudan. Engineering. v.114. p.400, 404-405. September 29, 1922.
- Irrigation works on the Blue Nile. Scientific american supplement. v.84. p.74. August 4, 1917.
- Irrigations au Niger et la culture du cotonnier. Etudes et travaux d'agriculture. Rapport de l'inspecteur général Yves Henry. Prospection agronomique. Station expérimentale F. Vuillet. Analyse des terres. H. Lavergne. Paris, E. Larose, 1922. 183p.
- Irrigations du Niger, discussions et controverses. E. Béline. Paris, Comité du Niger, 1923. 116p.
- Les irrigations du Niger; études et projets. Résumé... Paris, E. Larose, 1921. 160p.
- Irrigations et cultures irriguées en Afrique tropicale. Yves Henry, avec la collaboration de J. Lemmet. Paris, E. Larose, 1918. 296p.

Künstliche bewässerung in den wärmeren erdstreichen und ihre anwendbarkeit in Deutsch-Ostafrika. Karl Kaerger. Berlin, Gergonne & cie, 1893. 183p.

Makwar' dan; what it means to the Sudan. Near east. v.29. p. sup vii - ix. January 7, 1926.

Mittelmeer-senkung, Sahara - bewässerung (Panropa - projekt) Lowering the Mediterranean, irrigating the Sahara (Panropa project) Herman Soergel. Leipzig, J. M. Gebhardt, 1929. 48p.

Myth of silt fertilization. S. S. Green. California countryman. v.16. p.6. October 1929.

Notice sur l'hydraulique agricole en Algérie. Algeria. Direction des travaux publics et des mines. Alger-Mustapha, Giralt, imprimeur, 1900. 72p.

Outline report by the director of irrigation on the Vaal river development scheme. Cape Town, Cape times limited, 1934. 18p.

Plaine du Cheliff et les grands barrages. J. Manquene. Review by L. Tardy. Academie d'agriculture de France. Comptes rendus. v.20. p.794-796. October 17, 1934.

Principles of irrigation engineering, with special reference to South Africa, based on a course of lectures delivered at the University of Cape Town. Francis Edgar Kanthack. London, Longmans, Green & co., 1924. 299p.

Proceedings of the first South African irrigation congress held at Robertson, Cape Colony, on the 18th May 1919. Presented to both houses of Parliament by command of His Excellency the governor, 1909. Cape Town, Cape times limited, government printers, 1909. 100p.

Production du coton en Afrique occidentale francaise. Le programme carde. E. Béline. Paris, Publications du Comité du Niger, 1925. 263p.

Rapport. South Africa. Irrigation department. Kaapstad, 19-

Rapport à M. le ministre de l'instruction publique sur la mission des chotts. Etudes relatives au projet de mer intérieure. Francois Elie Roudaire. 2.éd. augm. des rapports de l'Académie des sciences. Paris, Imprimerie nationale, 1877. 138p.

Rapport deur die direkteur van besproeing betreffende die hoofttrekke van die Vaalrivier uitbreidingskema. South Africa. Irrigation department. Kaapstad, Cape times beperk, 1934. 18p.

Report. South Africa. Irrigation department. Cape Town, 1912; date.

Report of the Select committee on the Irrigation commission bill, with proceedings and minutes of evidence. Printed by order of the House of assembly, May 1926. Cape Town, Cape times limited, government printers, 1926. 24p.

Report of the Select committee on irrigation projects. Printed by order of the House of assembly, August 1920. Cape Town, Cape times limited, government printers, 1920. 127p.

Report of the Select committee on irrigation projects [with Proceedings and Minutes of evidences.] Printed by order of the House of assembly, May, 1919. Cape Town, Cape times limited, government printers, 1919. 126p.

Report of the Select committee on irrigation schemes (relief) [with Proceedings and minutes of evidence.] Printed by order of the House of assembly, June, 1923. Cape Town, Cape times limited, government printers, 1923. 44p.

Report of the Select committee on irrigation settlements. Printed by order of the House of assembly. July 1906. Cape Town, Cape times limited, 1906. 70p.

Report of the Select committee on the Hartebeestpoort irrigation scheme (acquisition of land) bill with Proceedings and minutes of evidences. Printed by order of the House of assembly, April 1918. Cape Town, Cape times limited, government printers, 1918. 38p.

Report on irrigation in South Africa. Sir William Willcocks. Johannesburg, Printed by authority, 1901. 52p.

Richesses hydrauliques du Maroc Occidental. P. Penet. Houille blanche. nos. 23-24. p.333-351. November-December, 1918. Hydraulic wealth of occidental Morocco. Possible industrial utilization; utilization of waters in agriculture; suggested program of study.

La rose et l'oranger au Sahara. Nonblot. Académie d'agriculture de France. Comptes rendus. v.17. p.47-52. January 14, 1931.

Sols d'orangeries, technique des irrigations. H. Roseau. Académie d'agriculture de France. Comptes rendus. v.22. p.978-979. November 25, 1936.

Sudd region of Nile. H. E. Hurst. Royal society of arts. Journal. v.81. p.721-736. June 23, 1933. Sudd is word applied to masses of swamp vegetation, grass reeds, papyrus, etc., which occasionally block some of tributaries of White Nile; possible projects on upper Nile for storing silt-free water to meet future increases of summer cultivation.

Sulla utilizzazione a scopo di irrigazione delle acque del fiume Gasc nella colonia Eritrea. Nicola Coletta. Roma, Tip. della Camera dei deputati, 1907. 79p.

Les travaux d'irrigation dans la plaine de l'oued Chélif (Algérie). J. Sers. Nature (Paris) no. 2924. p.215-220. March 1, 1934. Irrigation work being carried out on plain of Chélif, near Orleansville, Algeria; revetment of irrigation canal.

Les travaux d'irrigation dans la région du Macina au Soudan, au moyen des eaux du Niger. Génie civil. v.101. p.602-605. December 17, 1932. Description of irrigation works serving agricultural area of 500,000 ha. in district of Macina, in Niger river basin in French Sudan; use of German draglines and other excavating machinery for construction of large irrigation canals and protective levees.

Les travaux d'irrigation dans le Soudan au moyen des eaux du Niger. Génie civil. v.100. p.177-184. February 20, 1932. Irrigation projects and main irrigation structures in Niger river basin between Bamako and Timbaktu; Sotuba canal near Bamako has capacity of 10 cu. m. per sec.; project for irrigation of cotton and rice lands exceeding 1,500,000 ha. in area; discharge records of Niger river for years 1925-27.

Types of agriculture in the northern Sudan. F. E. Kenchinton. Tropical agriculture. v.12. p.235-239. September 1935.

Water and the course of empire in north Africa. M. M. Knight. Quarterly journal of economics. v.43. p.44-93. November 1928.

Water resources of western Morocco. P. Pemet. International review of the science and practice of agriculture. v.10. p.825. July 1919.

ARIZONA.

Analysis of irrigating water and the examinations of soils for alkali; Irrigation investigations. Arizona. Agricultural experiment station. Report, 1916. p.296-310. Tucson, Ariz., 1916.

Ancient canal systems and pueblas of the Salt river valley, Arizona, with notes and charts. H. R. Patrick. Phoenix, Ariz., Pheonix free museum, 1903. 12p.

Arizona irrigation calendar for 1916. G. E. P. Smith. Arizona. College of agriculture. Extension service. Tucson, 1916. 4p.

Biennial report. Arizona. State water commissioner. Phoenix, Ariz., 1921 - date.

Citrus chlorosis as affected by irrigation and fertilizer treatments. P.S. Burgess and G.G. Pohlman. Arizona. Agricultural experiment station. Bulletin no. 124. Tucson, Ariz., 1928. 183-232p.

Conserving the rights of Pima indians, Arizona: Letters and petitions with reference to conserving the rights of the Pima indians of Arizona to the lands of their reservation and the necessary water supply for irrigation. Washington, D.C., Government Printing Office, 1912. 8lp. U.S. 62d congress, 2d session. House. Document no. 521.

Construction of multiple arch dam in Arizona; Lake Pleasant dam. Engineering news record. v.100. p.180-183. February 2, 1928.

Cooperation builds an empire; work of the Salt river valley water users' association. T.A. Hayden. Nation's business. v.17. p.66 March 1929.

Development of hydro electric power as an aid to irrigation. C.C. Cragin. American society of civil engineers. Proceedings. v.58. p. 545-557, 1425-1427. April, October, 1932.

Diversion of irrigating water from Arizona streams. A.L. Harris. American society of civil engineers. Transactions. v.77. p.932-951. 1914. Deals with the principal features and conditions in connection with the work.

Effect of irrigation upon soil texture. T.H. Means. Science. v.84. p.39-40. July 10, 1936.

Existing and projected canal system of the Salt river irrigation project, Arizona. Jay D. Stannard. Engineering and contracting. v.35. p.434-435. April 12, 1911. Map and account of the present and proposed ditch system of the Salt river irrigation project.

Extending dug wells below water level; methods used in irrigation practice in Arizona. G.E.P. Smith. Engineering and contracting (Water works) v.62. p.778. October 8, 1924.

Farming development in Casa Grande valley. J. Blake. California cultivator. v.83. p.779 November 7, 1936.

Fresh water on Fort Yuma desert. March 14, 1878. Recommitted to the Committee on the public lands and ordered to be printed. Washington, D.C., 1878. 10p. U.S. 45th congress, 2d session. House. Report no. 380.

Government irrigation project at Roosevelt dam, Salt river, Arizona.

Oscar C. S. Carter. Journal of the Franklin institute. v.163.
p.277-301. April 1907. Remarks on the irrigation of this
region before the government took the matter in charge, with information
of the projects since carried out or under construction, especially
the Roosevelt dam.

Groundwater irrigation in Arizona. W. E. Code. Michigan technic.
v.36. p.11-14. May 1923. Notes on drilling of wells;
different types of pumps.

Groundwater supply and irrigation in the Rillito valley. G. E. P. Smith.
Arizona. Agricultural experiment station. Bulletin no. 64. Tuc-
son, Ariz., 1910. 81-244p.

Hearings before the Committee on Indian affairs, House of representatives,
on H. res. 330, authorizing suspension of work in construction of the
irrigation system, Pima indian reservation, Arizona, December 21, 1911
[January 5, 1912]. Washington, D. C., Government printing office,
1911-12. 54p.

Hearing before the Committee on the territories. December 10, 1903 on
bill H. R. 846, authorizing the city of Phoenix and the towns of Tempe
and Mesa, Arizona, to bond themselves to build a freight and wagon
road through the Superstition mountains to the dam site on the Salt
river. Washington, D. C., Government printing office, 1903.
12p.

High multiple arch dam at Lake Pleasant, Arizona. Engineering.
v.125. p.158-161. February 10, 1928.

Importance of irrigation to New Mexico and Arizona. W. S. Long. Amer-
ican catholic quarterly review. v.43. p.330-339. April 1918.

Improved transition adds to flume capacity; Agua Fria river flume of
Roosevelt irrigation district. J. A. Fraps. Engineering news
record. v.111. p.110-112. July 27, 1933.

Irrigated agriculture in Arizona. M. E. Bemis. California cultivator.
v.72. p.349. March 23, 1929.

Irrigating with sewage at Tucson, Arizona. W. C. Lefebvre.
Municipal journal. v.44. p.395. May 11, 1918.

Irrigation and agricultural practice in Arizona. R. H. Forbes.
Arizona. Agricultural experiment station. Bulletin no. 63.
Tucson, Ariz., 1911. 83p.

- Irrigation and flood protection, Papago indian reservation, Arizona.
Letter from the secretary of the interior, transmitting a special
report prepared by superintendents of irrigation, C. R. Olberg and
F. R. Schanck, on the cost of a proposed system of water develop-
ment and a distributing system for the irrigation and protection
from floods of irrigable lands on the Papago indian reservation in
Arizona. Washington, D. C., Government printing office, 1913.
32p. U. S. 62d congress. 3d session. Senate. Document
no. 973.
- Irrigation and related cultural practices with cotton in the Salt river
valley of Arizona. S. H. Hastings. U. S. Department of
agriculture. Circular no. 200. Washington, D. C., 1932. 31p.
- Irrigation at the station farm, 1898-1901. A. J. McClatchie.
Arizona. Agricultural experiment station. Bulletin no. 41.
Tucson, Ariz., 1902. 48p.
- Irrigation development in Arizona. M. E. Bemis. California culti-
vator. v.77. p.400. October 31, 1931.
- Irrigation in Arizona. M. E. Bemis. California cultivator. v.70.
p.91. January 28, 1928.
- Irrigation in Arizona. R. H. Forbes. U. S. Department of agri-
culture. Office of experiment stations. Bulletin no. 235.
Washington, D. C., 1911. 83p.
- Irrigation in Arizona. V. E. Stolbrand. Arizona. Agricultural
experiment station. Bulletin no. 3. Tucson, Ariz., 1891.
14p.
- Irrigation in Arizona: Past, present and future. M. E. Bemis.
California cultivator. v.58. p.62. January 21, 1922.
- Irrigation near Phoenix, Arizona. Arthur Powell Davis. U. S.
Geological survey. Water supply and irrigation paper no. 2.
Washington, D. C., 1897. 95p.
- Irrigation of agricultural lands. Arizona statistics for state and
counties. U. S. Bureau of the census. Washington, D. C., 1931.
11p.
- Irrigation of Santa Cruz valley. M. C. Hinderlider. Engineering
record. v.68. p.200-201, 242-244. August 23, 30, 1913.
Illustrated account of the recovery of underground water in Arizona
by wells and pumps.
- Irrigation of the Yuma valley. D. A. Willey. Scientific american.
v.99. p.73-74. August 1, 1908.

- Irrigation works in Arizona. C. L. Gates. Journal of the Association of engineering societies. v.37. p.157-162. December 1906. Treats of the reclaiming of the arid lands for agriculture, by irrigation, giving the cost of the Salt river storage tank and its accessories.
- Land of painted bills; story of the ideal commonwealth which faith, water and work are building in Arizona. W. V. Woehlke. Sunset. v.34. p.1099-1109. June 1915.
- Lettuce irrigation studies. H. C. Schwalen and M. F. Wharton. Arizona. Agricultural experiment station. Bulletin no. 133. Tucson, Ariz., 1930. 463-517p.
- Maricopa county water conservation district no. 1. W. G. Jenkins. Western construction news. v.3. p.682-684. November 10, 1928. Description of largest private capital irrigation development in United States; Lake Pleasant multiple-arch dam with storage capacity of reservoir 173,500 acre ft.; Armco Lennon metal flume, 13.4 ft. diam. and 1215 ft. long crossing Agua Fria river.
- Minor repairs restore usefulness of earth dam in Arizona. Engineering news record. v.108. p.356-357. March 10, 1932.
- Motor driven irrigation pumping plants and the electrical district. G. E. P. Smith. Arizona. Agricultural experiment station. Bulletin no. 99. Tucson, Ariz., 1924. 141p.
- National irrigation act and articles of incorporation of the Salt river valley water users' association. Adopted by the Salt river valley water storage conference committee. Phoenix, Arizona, January 21, 1903. Phoenix, 1903. 32p.
- Pima indian reservation. Hearing before the Committee on indian affairs, United States senate on H. R. 18244, a bill providing for the construction of irrigation works for impounding the waters of the Gila river, Ariz., and its tributaries for irrigation of the lands of the Gila river valley, and for the protection of the interests of the Pima and other Indian tribes, and for other purposes. March 14, 1912. Washington, D. C., Government printing office, 1912. 22p.
- Prehistoric irrigation in Arizona. F. W. Hodge. Washington, D. C., Judd and Detweiler, printers, 1893. 323-330p.
- Reclaiming the desert. W. R. Wood. California cultivator. v.63. p.219. September 6, 1924.
- Regarding Arizona's objection to the Boulder canyon dam. C. C. Tillotson. Journal of electricity. v.57. p.440-441. December 15, 1926.

Report. Arizona. Joint committee on condition and affairs of Lyman dam project. Phoenix, The Arizona printers, inc., 1923. 32p.

Report based on reconnaissance investigation of Arizona land irrigable from the Colorado river. Phoenix, Ariz., Arizona engineering commission, 1922-23. 72p.

Report in the matter of the investigation of the Salt and Gila rivers - reservations and reclamation service. U. S. Committee on expenditures in Interior dept. Washington, D. C., Government printing office, 1913. 736p. U. S. 62d congress. 3d session. House. Report no. 1506.

Resources of Pinal county, Arizona. Prepared for the Special Senate committee on arid lands. By authority of the Board of supervisors. Florence, Ariz., Enterprise job rooms, 1889. 23p.

Roosevelt irrigation dam in Arizona. Scientific american. v.93. p.476. December 16, 1905.

Roosevelt irrigation district, Arizona. M. E. Ready and A. V. Salph, jr. Western construction news. v.3. p.520-524. August 25, 1928. Agua Fria river flume crossing, 5959 ft. long, embraces tract of fertile land 27 mi. long; with width of 2 1/2 to 4 1/2 mi., and containing 40,000 acres; water-collection system; 26 wells, mostly 18 in. diam., and varying in depth from 140 to 483 ft.; from collection system to distribution system, water is transported over Agua Fria river channel in semi-circular metal flume, 13 ft. 4 3/8 in. diam.; superstructure; trestle; truss spans; foundations.

Roosevelt water conservation district no. 1. M. E. Bemis. California cultivator. v.66. p.125. January 30, 1926.

Salt and Gila rivers - reservations and reclamation service. Hearings before a subcommittee of the Committee on expenditures in the Interior department, of the House of representatives under H. Res. 103. April 23 - May 2, 1912. Washington, D. C., 1912. 9 nos.

Salt river irrigation project, Arizona. U. S. Reclamation service. Washington, D. C., 1909. 30p.

Salt river irrigation project - Arizona. Hearing before the Committee on irrigation and reclamation of arid lands, United States Senate, sixty-second congress, second session, on Salt river irrigation project, Arizona. February 29, 1912. Washington, D. C., Government printing office, 1912. 24p.

Salt river project. A. P. Davis. Engineering record. v.57. p.768-769. June 20, 1908. Illustrated account of conditions and difficulties met in developing the irrigation project in Arizona.

- Salt river project and irrigation, illustrating methods in big units of study. Edited by Charles A. McMurry assisted by Ralph Dorman. Nashville, Tenn., George Peabody college for teachers, 1917. 47p.
- Salt river project, Arizona. T. A. Haydon. Western construction news. v.5. p.294-302, 319-327. June 25, July 10, 1930
Irrigation and hydro-electric development by Salt river valley water users' association including six large dams, Roosevelt dam among them. Horse Mesa concrete-arch dam, 305 ft. high; Stewart mountain concrete-arch dam which is over 210 ft. in height; construction methods.
- San Carlos irrigation project, Arizona. Report to the secretary of war of a board of engineer officers, United States army, under Indian appropriation act of August 24, 1912, on the San Carlos irrigation project, Arizona. Washington, D. C., Government printing office, 1914. 168p. U. S. 63d congress, 2d session. House. Document no. 791.
- Tapping lost stream for irrigation water. T. N. Hildreth. Water works and sewerage. v.66. p.513-514. December 1927.
- Uncle Sam pays a debt to Indians; an irrigation system for the Pimas of Arizona. C. J. Blanchard. Review of reviews. v.65. p.622-624. June 1922.
- Use and duty of water in the Salt river valley. J. C. Marr. Arizona. Agricultural experiment station. Bulletin no. 120. Tucson, Ariz., 1927. 57-97p.
- Use of waters of the lower Colorado river for irrigation. Letter from the secretary of the interior, transmitting report of the director of the Geological survey. Washington, D. C., Government printing office, 1905. 8p. U. S. 58th congress. 3d session. House. Document no. 204.
- Water rheostat permits irrigation flow. H. J. Lawson. Electrical world. v.103. p.719-720. May 19, 1934.
- Work on the Roosevelt irrigation project in Arizona. D. A. Willey. Electrical review (New York). v.55. p.284-286. August 14, 1909. Illustrates and describes applications of electric power to this work.
- Yuma irrigation dam. D. A. Willey. Scientific american. v.99. p.293, 302-303. October 31, 1908.
- Yuma irrigation project, Arizona-California. Washington, D. C., 1909. 40p.
- Yuma Mesa, Arizona: Extension of Yuma irrigation project. Washington, D. C., U. S. Reclamation service, 1919. 14p.

Yuma reclamation project. J. B. Lippincott, supervising engineer.
U. S. Smithsonian institution. Annual report, 1904. p.383-388.
Washington, D. C., 1905.

ARKANSAS.

Irrigation of agricultural lands. Arkansas statistics for state and
counties. U. S. Bureau of the census. Washington, D. C., 1931.
9p.

Rice field irrigation in Arkansas. Engineering and contracting. (Water
works.) v.61. p.115-116. January 9, 1924.

Rice irrigation on the Grand prairie of Arkansas. B. S. Clayton.
Agricultural engineering. v.11. p.110-112. March 1930.
Source of water supply, prime movers, pumps, wells, duty of water,
cost of pumping; data from 1929 pumping season.

ASIA.

Ancient city and its remarkable irrigation system: Hama. Scientific
american supplement. v.75. p. 209,213. April 5, 1913.

Bewässerungsanlagen in der ebene von Konia in Kleinasien. A. von Horn.
Glaser's annalen für gewerbe und bauwesen. v.74. p.177-185.
May 1, 1914. Irrigation projects in the plains of Konia in Asia
Minor. General description.

From a Colorado irrigation engineer in Soviet central Asia. L. E. Bishop.
Engineering news record. v.105. p.648. October 23, 1930.
Excerpts from letter containing notes on irrigation conditions and
systems in Ferghana valley 200 mi. from Tashkent.

Hungry Steppe irrigation practice. E. G. Petrov. Vestnik irrigatziyi.
v.8. p.74-86. January 1930. Quantitative data on
flooding, overhead and check methods of irrigation of virgin lands
and of fields of cotton, alfalfa, etc.; pumping installation for over-
head irrigation. In Russian.

Irrigation en Asie centrale; étude géographique et économique. Henri
Moser. Paris, Société, d'editions scientifiques, 1894. 379p.

Irrigatiegerken in de vlakte von Konia in Klein-Azië. R. G. Hoeffelman.
Ingenieur. v.28. p.513-535. June 28, 1913. Irrigation
in the plains of Konia in Asia Minor. Detailed study of the customs
employed in Ancient and modern times.

Korea and irrigation. Far eastern review. v.23. p.226-231.
May 1927.

Korea and irrigation. Compiled by the Oriental development co., ltd.,
Tokyo. Tokyo, Printed at the Herold of Asia, 1927. 42p.

Koren's new system. M. Alger. Scientific american supplement. v.61.
p.25300. April 7, 1906.

Protection of our fruit crops from late spring frosts and the conservation
of our wasted rainfall. J. W. N. Cuming. With a note on karezes
and wells and the possibilities of the strainer tube wells in the
Quetta valley. H. A. MacArthur. Quetta, Printed by Chaudry Karam
Dad, 1920. 52p.

River regulation and control in antiquity. Address by Sir William Will-
cocks at National drainage congress, Savannah, Ga., April 24, 1914.
Washington, Government printing office, 1914. 6p. U. S. 63d
congress. 2d session. House. Committee on rivers and harbors.
Document no. 18.

AUSTRALIA.

Annual report. Queensland. Irrigation and water supply commission.
4th - date. 1925/26 - date. Brisbane, 1926 - date.

Annual report. South Australia. Irrigation and drainage commission.
1st - date. 1923/24 - date. Adelaide, 1924 - date.

Apple culture in Victoria; irrigation. J. Farrell. Journal of the
Department of agriculture of Victoria. v.16. p.355-363, 454-462.
June, August 1918.

Australian irrigation farms. Scientific american supplement. v.50.
p.20561. August 4, 1900.

Australian irrigation scheme. Louisiana planter. v.72. p.17,
January 5, 1924.

Australia's largest irrigation project. Excavating engineer. v.15.
p.113-117. April 1921. Description of Murrumbidgee irrigation
scheme of Water conservation & irrigation commission of New South
Wales. Work under way on contract no. 64 consisting of 54 miles of
canal enlargement with total excavation of 3,685,000 cu. yd.
Detailed account of dragline operation.

Black soil under irrigation with bore water. R. W. McDiarmid.
Agricultural gazette of New South Wales. v.35. p.845-854.
December 1924.

Chemical nature of the soils of New South Wales, with special reference
to irrigation. Frederick B. Guthrie. Royal society of New South
Wales. Journal and proceedings. v.37. appendix, p.51-65.
Sydney, 1903.

- Conquering the desert. Conservation - reclamation - irrigation.
National policy for progressive people. David J. Gordon.
Adelaide, W. K. Thomas & co., printers, 1907. 37p.
- Cotton growing under irrigation. A. N. Shepherd. Agricultural gazette
of New South Wales. v.34. p.727-730. October 1923.
- Dawson valley irrigation project. Engineer. v.138. p.494.
October 31, 1934.
- Design of subdivisions and works for irrigation. J. M. S. Woore.
Institution of engineers of Australia. Journal and transactions.
v.7. p.116-159. 1926. Principles governing design of sub-
divisions and works for development of farms in connection with
large irrigation scheme; examples and methods described being based
on experience gained during 12 years on Murrumbidgee irrigation areas,
N. S. Wales.
- Distribution of water in irrigation in Australia. Elwood Mead.
International engineering congress. Transactions, 1915.
p.611-642. San Francisco, Cal., 1916.
- Drought antidote for the northwest, or the utilization of the artesian
resources of New South Wales. Percy Allen. Sydney, 1906. 95p.
- Economic use of irrigation water. L. C. Bartels. Journal of the
Department of agriculture of Victoria. v.27. p.661-665.
November 1929.
- Engineering work for large British irrigation project; method of making
surveys and designs for Murrumbidgee scheme. J. M. S. Woore.
Engineering and contracting. (Water works.) v.60. p.91-96.
July 11, 1923. Method of making surveys and designs for Murrum-
bidgee scheme, New South Wales.
- Fruit growing under irrigation under the climate and geographical
conditions pertaining to the Murray valley. F. R. Arndt.
Adelaide, Hassell press, 1930. 214p. Different systems of
watering used in irrigation areas, laying out the land for watering,
irrigation, amount of water to use.
- Goulburn weir and its dependent system of works. Descriptive memo-
randum compiled from official records. Stuart Murray, chief
engineer of water supply. Melbourne, 1893. 15p.
- Government experimental farm, Kybybolite; fodder crops under irrigation.
Journal of the Department of agriculture of South Australia. v.27.
p.766-774. March 1924.

- Harnessing Australia's greatest river. Being an account of the great scheme undertaken by the governments of the Commonwealth of Australia, and of the states of New South Wales, Victoria, and South Australia, with a view to the more profitable use of the waters of the river Murray. Together with appendices, describing some results obtained from irrigation works carried out in individual states of New South Wales, Victoria, and South Australia, and the construction of the terminal wheat silo at Sydney, N. S. W. Melbourne, Industrial Australian and mining standard, 1920. 51p.
- Hints on orchard irrigation. W. McCutcheon. Agricultural gazette of New South Wales. v.47. p.33-34. January 1936.
- Hume dam on the Murray river. Engineer. v.159. p.480-482. May 10, 1935.
- Hume dam on Murray river, Australia completed for regulation. H. H. Dare. Engineering news record. v.113. p.813. December 27, 1934.
- Improved irrigation development for Australia. Engineering news. v.92. p.440. March 13, 1934.
- Interstate royal commission on the River Murray, representing the states of New South Wales, Victoria, and South Australia. Report of the commissioners with minutes of evidence, appendices, and plans. Interstate royal commission on the river Murray. Sydney, W. A. Gullick, government printer, 1902. 359p.
- Irrigated pastures. L. C. Bartels. Journal of the Department of agriculture of Victoria. v.29. p.66-69. v.30. p.441-444, 565-568. February 1931, September, December 1932.
- Irrigation. F. R. Arndt. Journal of the Department of agriculture of South Australia. v.32. p.424-426. December 1928.
- Irrigation. N. S. Fotheringham. Journal of the Department of agriculture of South Australia. v.36. p.1404-1406. July 1933.
- Irrigation and drainage. F. R. Arndt. Journal of the Department of agriculture of South Australia. v.39. p.58-69. August 1935.
- Irrigation and water conservation in western Australia. Hugh Oldham. Perth, A. Curtis, acting government printer, 1913. 37p.
- Irrigation and water supply in Australia. W. G. Sutton. South African institution of engineers. Journal. v.32. p.175-191. v.33. p.12-15, 72-76. April, August, October 1934. Climatic and topographical features; water resources; irrigation water supply in New South Wales; irrigation schemes; irrigation and water supply in Victoria; domestic and stock water supplies; irrigation in South Australia; works under construction.

Irrigation at Doort; lucerne and pastures competition. A. Morgan.
Journal of the Department of agriculture of Victoria. v.34.
p.168-171. April 1936.

Irrigation enterprises in Australia. Engineer. v.139. p.465.
April 24, 1925. Among most important schemes are Humé storage
works; Torrumbarry weir and lock; and Goulburn weir, Victoria.

Irrigation experiments at Werribee. L. C. Bartels. Journal of the
Department of agriculture of Victoria. v.22. p.37-42.
January 1924.

Irrigation farm competitions at Tongala. L. C. Bartels and E. Ryland.
Journal of the Department of agriculture of Victoria. v.27.
p.272-280. May 1929.

Irrigation farming in Australia. An account of the irrigation closer
settlement schemes in the commonwealth, showing the steps by which
the new settler from oversea begins. Issued under the authority of
the minister of state for external affairs, Melbourne, Australia,
1915. Melbourne, McCarron, Bird & co., printers, 1915. 40p.

Irrigation farming in New South Wales. A. N. Shepherd. Agricultural
gazette of New South Wales. v.34. p.685-696, 781-787, 837-846;
v.35. p.131-136. October-December, 1923. February 1924.

Irrigation farming in New South Wales. A. N. Shepherd. Sydney, A. J.
Kent, government printer, 1925. 57p. New South Wales. Depart-
ment of agriculture. Farmers' bulletin no. 148.

Irrigation from the Murrumbidgee river. L. A. B. Wade. Sydney, W. A.
Gullick, government printer, 1912. 54p. Paper read before the
Sydney university engineering society on November 17th, 1909.

Irrigation geologically considered with special reference to the
artesian area of New South Wales. Edward F. Pittman and T. W. E.
David. Royal society of New South Wales. Journal and proceedings.
v.37. appendix, p.103-153. 1903.

Irrigation in Australia. J. H. Barclay. World's markets. v.15.
p.8-12. April 1924.

Irrigation in Australia. A. D. Lewis. Pretoria, Government printer,
1935. 85p. Report based on inspection tour in 1935,
dealing with engineering, agricultural and financial aspects of
irrigation developments of Australia; pumping schemes; Wimmera-
Mallee domestic and stock supply; control of irrigation.

Irrigation in Australia. E. Mead. Independent. v.69.
p.756-763. October 6, 1910.

- Irrigation in Australia; the Murrumbidgee project, with storage capacity for 200 billion gallons. P. J. Risdon. Scientific american. v.128. p.244-245. April 1923.
- Irrigation in Australia the Murrumbidgee project in New South Wales. J. N. Barclay. Dun's international review. v.44. p.47-51. January 1925.
- Irrigation in north Queensland. Queensland agricultural journal. v.44. p.180-181. August 1935.
- Irrigation in Queensland. H. E. A. Eklund. Queensland agricultural journal. v.20. p.4-6, 102-109, 168-173, 279-290, 337-346, 397-413. v.21. p.44-56, 142-146, 289-308. July 1923 - February, April 1924.
- Irrigation in southeastern Australia. Engineer. v.106. p.504. November 13, 1908. Describes the conditions and the scheme of water regulation.
- Irrigation in the Murray valley, South Australia. Peter G. Tait. Commonwealth engineer. v.10. p.118-124. November 1, 1922. Reinforced concrete pipes replace open channels on 9000 acre development at Loveday.
- Irrigation in Victoria. H. G. McKinney. Engineering record. v.59. p.62-63. January 16, 1909. Account of what has been done and the irrigation policy.
- Irrigation in Victoria. Elwood Mead. Engineering record. v.60. p.175-176. August 14, 1909. An explanation of the conditions which caused financial loss in the earlier development, with hopeful outlook for the future.
- Irrigation in Victoria. Information for home seekers ... Compiled, January 1915, by the State rivers and water supply commission, Melbourne, Victoria, Australia ... Melbourne, A. J. Mullett, government printer, 1915. 16p.
- Irrigation in Victoria: its position and prospects. Report for the Honorable Geo. Graham, M. P., Minister of water supply. Stuart Murray. Melbourne, R. S. Brain, government printer, 1892. 24p.
- Irrigation investigations. Journal of the Department of agriculture of Victoria. v.32. p.567-570. November 1934.
- Irrigation investigations in the Mildura and Renmark districts. A. V. Lyon. Journal of the Department of agriculture of South Australia. v.34. p.1260-1262. July 1931.

- Irrigation of horticultural community settlements. A. V. Lyon.
Australia Council for scientific and industrial research. Pamphlet
no. 26. Melbourne, 1932. 22p.
- Irrigation of pasture lands. L. C. Dartels. Journal of the
Department of agriculture of Victoria. v.25. p.160-165.
March 1927.
- Irrigation on the Murray: utilization of swamp lands. Arthur J. Perkins.
Adelaide, Hussey & Gillingham, printers, 1903. 23p.
- Irrigation possibilities in the south east. Journal of the Department
of agriculture of South Australia. v.22. July 1919. p.966-
967.
- Irrigation principles. H. W. Kerr. Queensland agricultural journal.
v.40. p.10-19. July 1933.
- Irrigation problem in central Australia. Review of reviews. v.34.
p.619-620. November 1906.
- Irrigation scheme of the river Murray, South Australia. Engineer.
v.125. p.15-16. January 4, 1918. Details of recently
completed installation at Berri.
- Irrigation schemes in Victoria. C. H. Kernot. Commonwealth engineer.
v.8. p.9-14. August 1, 1920. Scheme for irrigation of
850,000 acres of land.
- Irrigation waters for horticultural purposes in south Australia. G.
Quinn. Journal of the Department of agriculture of South Australia.
v.37. p.1112-1114. April 1934.
- Irrigation with artesian water. W. R. Fry and A. E. Darvall. Sydney,
W. A. Gullick, government printer, 1910. 38p. New South
Wales. Department of agriculture. Farmers' bulletin no. 33.
- Kybybölito experimental farm irrigation experiments, 1923-1924.
L. J. Cook. Journal of the Department of agriculture of South
Australia. v.28. p.333-334. November 1924.
- Life of George Chaffey; a story of irrigation beginnings in California and
Australia. J. A. Alexander. New York, Macmillan co., 1928.
382p.
- Making the desert bloom in Australia. O. Johnson. Scientific
american. v.121. p.285. September 20, 1919.
- New South Wales, the "Murrumbidgee" irrigation scheme. L. A. B. Wade.
Sydney, W. A. Gullick, government printer, 1914. 9p.

- Our future dependence on irrigation. Journal of the Department of agriculture of South Australis. v.21. p.130-131. September 1917.
- Paternal irrigation in Australia. E. F. Adams. Sunset. v.37. p.34-35. August 1916.
- Policy to be followed in irrigation development. Victoria. Rivers and water supply commission. Melbourne, J. Kemp, government printer, 1909. 20p.
- Potato production under irrigation. J. T. Ramsay. Journal of the Department of agriculture of Victoria. v.22. p.355-360. June 1924.
- Practical irrigation-farming in Australia; relation of drainage to irrigation. A. M. Makinson. Agricultural gazette of New South Wales. v.27. p.489-504. July 1916.
- Producing lucerne hay under irrigation. F. G. Chomley and F. A. Chaffey. New South Wales. Department of agriculture. Farmers' bulletin no. 143. Sydney, 1921. 22p.
- Production under irrigation on the river Murray. H. S. Taylor. Journal of the Department of agriculture of South Australia. v.24. p.499-509. January 1921.
- Proposed Bairnsdale irrigation and water supply trust. Application under the provisions of "the Irrigation act 1886" (no.898). First petition for the constitution of an irrigation and water supply district, and for the appointment and creation of a trust for the same. Victoria. Water supply department. Melbourne, R. S. Brain, government printer, 1890. 31p.
- Proposed Carrum irrigation and water supply trust. Application under the provisions of "the Irrigation act 1886" (no.898). First petition, together with engineering reports, estimates, plans and documents; as also the declaration of the minister of water supply thereon. Victoria. Water supply department. Melbourne, R. S. Brain, government printer, 1890. 25p.
- Proposed Eastern Wimmera irrigation and water supply trust. Application under the provisions of "the Irrigation act 1886" (no.898). First petition of the Wimmera united waterworks trust, together with engineering reports, estimates, plans, and documents; as also the declaration of the minister of water supply thereon. Victoria. Water supply department. Melbourne, R. S. Brain, government printer, 1890. 26p.

Proposed Echuca and Waranga irrigation and water supply trust. Application under the provisions of "the Irrigation act 1886" (no.898). First petition, together with engineering reports, estimates, plans, and documents; as also the declaration of the minister of water supply thereon. Victoria. Water supply department. Melbourne, R. S. Brain, government printer, 1890. 16p.

Proposed Emu valley irrigation and water supply trust. Application under the provisions of "The irrigation act 1886" (no.898). First petition of landowners, together with engineering reports, estimates, plans, and documents; as also the declaration of the honorable the minister of water supply thereon. Victoria. Water supply department. Melbourne, R. S. Brain, government printer, 1888. 12p.

Proposed Harcourt irrigation and water supply trust. Application under the provisions of "the Irrigation act 1886" (no. 898). First petition, together with engineering reports, estimates, plans, and documents; as also the declaration of the minister of water supply thereon. Victoria. Water supply department. Melbourne, R. S. Brain, government printer, 1889. 11p.

Proposed Marquis Hill irrigation and water supply trust. Application under provisions of "The irrigation act, 1886," (no.898). First petition of ~~landowners~~ together with engineering reports, estimates, plans, and documents, as also the declaration of the minister of water supply thereon. Victoria. Water supply department. Melbourne, J. C. Stephens, printer, 1888. 14p.

Proposed Millewa irrigation and water supply trust. Application under the provisions of "the Irrigation act 1886" (no.898). First petition of landowners, together with engineering reports, estimates, plans, and documents; as also the declaration of the minister of water supply thereon. Victoria. Water supply department. Melbourne, R. S. Brain, government printer, 1890. 12p.

Proposed Mincha irrigation and water supply trust. Application under the provisions of "the Irrigation act 1886" (no.898). First petition for the constitution of an irrigation and water supply district, and for the appointment and creation of a trust for the same. Victoria. Water supply department. Melbourne, R. S. Brain, government printer, 1890. 10p.

Proposed Rochester irrigation and water supply trust. Application under the provisions of "the Irrigation act 1886" (no.898). First petition for the constitution of an irrigation and water supply district and for the appointment and creation of a trust for the same. Victoria. Water supply department. Melbourne, R. S. Brain, government printer, 1889. 9p.

Relation of electricity to irrigation works and land development.
Thomas Rooke. Royal society of New South Wales. Journal and
proceedings. v.37. p.92-102. Sydney, 1903.

Report. New South Wales. Water conservation and irrigation com-
mission. 1912/13 - date. Sydney, 1914 - date.

Report from the Select committee on the Segenhoe estate irrigation
bill; together with the proceedings of the Committee, minutes of
evidence, and appendices. Sydney, C. Potter, government printer,
1891. 29p.

Report of Development and migration commission relating to the Dawson
valley irrigation scheme, Queensland. Canberra, H. J. Green,
government printer, 1928. 73p.

Report on the Cohuna irrigated farm competition. Journal of the
Department of agriculture of Victoria. v.27. p.465-469.
August 1929.

Report on the Murrumbidgee irrigation scheme. Dr. Elwood Mead.
Sydney, A. J. Kent, government printer, 1923. 12p.

Report together with minutes of evidence, photograph, and plans
relating to the proposed ~~Barren~~ Jack storage reservoir and Northern
Murrumbidgee irrigation scheme. Presented to Parliament in
accordance with the provisions of the Public works act, 64 Vic.
no. 26. Printed under no. 16 report from Printing committee,
1 November 1906. New South Wales. Committee on public works.
Sydney, W. A. Gullick, government printer, 1906. 642p.

Report ... with appendices. Australia. River Murray commission.
1917/18 - date. Melbourne, 1918 - date.

River Murray waters scheme. H. H. Dare. Institution of engineers
of Australia. Journal and transactions. v.6. p.185-198.
June 1934. Description of provisions of river Murray agreement,
and of works, constructed thereunder, together with reference to
works proposed under recent amendment of agreement; development
under irrigation from Murray river in three states concerned;
operation of Hume dam and Lake Victoria storage.

Rochester irrigation farm competition, 1929-30. J. Barrett and L. C.
Bartels. Journal of the Department of agriculture of Victoria.
v.28. p,439-445. July 1930.

Sahara's lesson from Australia. Literary digest. v.80. p.24.
January 12, 1924.

- Some experiences with fruit under irrigation. F. G. Chomley. Agricultural gazette of New South Wales. v.32. p.273-276. April 1921.
- Third and final report of the commissioners. Ordered by the Legislative assembly to be printed, 17 May 1887. New South Wales. Water conservation commission. Sydney, C. Potter, government printer, 1887. 228p.
- Tongala farm competition. L. C. Bartels and J. Roy. Journal of the Department of agriculture of Victoria. v.30. p.241-245. May 1932.
- Tongala irrigated farm competition, 1929-30. L. C. Bartels and E. Rankin. Journal of the Department of agriculture of Victoria. v.28. p.294-301. May 1930.
- Tongala irrigated farm competition, 1932-33. L. C. Bartels and J. MacFadyen. Journal of the Department of agriculture of Victoria. v.31. p.238-242. May 1933.
- Vineyard irrigation. F. de Castella. Journal of the Department of agriculture of Victoria. v.33. p.137-142. March 1935.
- Water conservation and the equitable distribution of water for irrigation and other purposes. Hugh Griffin McKinney. Royal society of New South Wales. Journal and proceedings. v.37. appendix, p.5-14. Sydney, 1903.
- Water conservation and irrigation works in Victoria. R. H. Horsfield. Institution of engineers of Australia. Journal and transactions. v.7. p.10-23, 165-167. January, May 1935. Activities of State rivers and water supply commission of Victoria; special engineering features of Goulburn weir, Waranga reservoir; earthen dam - Coliban, Waranga and Pykes creek reservoirs; rock fill dams - Melton and Eildon reservoirs; channel structures; channel lining; river protection; drainage of irrigated land.
- Water conservation in Queensland. Queensland agricultural journal. v.20. p.461-467. December 1923.
- Water requirements of farm crops; application of results to irrigated lucerne. A. E. V. Richardson. Journal of the Department of agriculture of Victoria. v.21. p.457-481. August 1923.
- Water lucerne. L. C. Bartels. Journal of the Department of Agriculture of Victoria. v.25. p.647-651. November 1927.
- What Australia offers farmers. F. C. Coleman. Technical world. v.16. p.527-535. January 1912.

Winter irrigation of vineyards. F. de Castella. Journal of the
Department of agriculture of Victoria. v.30. p.340-342.
July 1932.

BELGIUM.

Défrichement des bruyères de la Campine. Mémoire sur l'intervention
projectée du gouvernement. Belgium. Ministère des travaux
publics. Bruxelles, E. Devroye et ce, imprimeur du roi, 1845.
132p.

Exécution de la loi du 25 mars 1847, sur le défrichement des terrains
incultes. Compte rendu. Bruxelles, 1850. 279p.

BULGARIA.

Irrigation in Bulgaria. I. Mihailoff. International review of agri-
culture. v.25. p.203T-204T. May 1934.

CALIFORNIA.

Advances in California irrigation practice. F. Adams. California
cultivator. v.62. p.93. January 26, 1924.

Alfalfa irrigation in California. J. B. Brown. California cultivator.
v.76. p.117. January 31, 1931.

Alfalfa irrigation layout. W. C. Tesche. Pacific rural press.
v.113. p.570. April 23, 1927.

All-American canal project started on 30-mile section. Engineering
news record. v.113. p.488-489. October 18, 1934.

Anaheim grove brought back by changed irrigation practice. D. J.
Thompson. California citrograph. v.16. p.51. December
1930.

Antelope valley water project. W. R. Wood. California cultivator.
v.62. p.619. May 31, 1924.

Basin of the Colorado river. C. B. Messenger. California culti-
vator. v.54. p.605. April 10, 1920.

Bewaesserung Kaliforniens. A. Kempkey. Verein Deutscher ingenieure
Zeitschrift. v.74. p.1749-1753. December 27, 1930.
California irrigation. General review of climate and resources of
state; organization of irrigation districts and private irrigation
companies; methods of application of water to land including over-
head irrigation.

Biennial report. 1920-1928. California. Department of public works. Division of engineering and irrigation. Sacramento, Cal., 1921-1929.

Biennial report 1907-1920. California. Department of engineering. Sacramento, Cal., 1908-1921.

Biennial report, 1912-1920. California. State water commission. Sacramento, Cal., 1913-1921.

Biennial report, 1920-1928. California. Division of water rights. Sacramento, Cal., 1921-1929.

Biggest irrigation project in the world. R. E. Hodges. Pacific rural press. v.105. p.289. March 10. 1923.

Boulder Canyon storage and power favored by Dr. Mead. Engineering news. v.94. p.283. February 12, 1925.

Boulder dam, all American canal project. El Centro, Cal., Imperial irrigation district, 1924. 30p.

Brief survey of the 1924 water situation. H. S. Martin. Pacific rural press. v.107. p.171. February 9, 1924.

California; index to the state sources of agricultural statistics. Compiled by L. O. Dercaw. Washington, D. C., U. S. Bureau of agricultural economics, 1930-1931. 5 parts. U. S. Bureau of agricultural economics. Bibliography no. 31.

- part 1. Fruits, vegetables and nuts. 1930. 343-724p.
- part 2. Crops other than fruits, vegetables and nuts. 1930. 430p.
- part 3. Livestock and livestock products. 1931. 371p.
- part 4. Land, farm property, irrigation and miscellaneous items. 1931. 128p.
- part 5. Index to some unofficial sources. 1930. 69p.

California and the Boulder dam. E. R. Root. Gleanings in bee culture. v.57. p.513-516. August 1929.

California citrus institute discusses irrigation; meeting, San Bernardino, Feb. 23, 1926. California citrograph. v.11. p.228. April 1926.

California cooperative work. Department of the interior, United States reclamation service in cooperation with state of California. Report on Pit river basin by the Reclamation service, office at Portland, Oregon. E. G. Hopson, supervision engineer. O. W. Peterson, engineer. April 1915. Sacramento, California state printing office, 1915. 140p.

- California has water enough for millions of acres. F. Adams.
Pacific rural press. v.101. p.17. January 1, 1921.
- California irrigation and reclamation bonds hard hit. T. H. Means.
Engineering news record. v.108. p.862. June 16, 1932.
- California irrigation districts to get aid from federal loans. Engineering
news record. v.114. p.586-587. April 25, 1935.
More than one third districts have applied for RFC aid; of out-
standing bonds, 70 percent are in default; total area of 90 districts
is 2,200,080 acres.
- California water and irrigation problem. S. C. Evans. California.
Department of agriculture. Bulletin. v.16. p.193-197.
March 1927.
- California's change to irrigation from dry farming. J. J. Halsey.
Western construction news. v.3. p.83-84. February 10, 1928.
Irrigation beginnings; during period that area was being brought
under cultivation, 1850-1885, irrigation was practiced to some extent;
phenomenal agricultural growth of California is due not to increase
in its cultivable acreage, but rather to irrigation, scientific applic-
ation of water to fertile agricultural soils already farmed to supple-
ment natural moisture; irrigation districts; water storage and con-
servation.
- California's Friant project; with cost data. Engineering news record.
v.117. p.89. July 16, 1936.
- Canal bank maintenance by disking on Imperial irrigation district; tractor
drawn disk supplants hand cutting of brush and bamboo. M. J. Dowd.
Engineering news record. v.108. p.206-207. February 11,
1932.
- Canal over divide raises storage service factor. Engineering news
record. v.80. p.1186-1189. June 20, 1918.
Concrete lining reduces seepage; rip rap checks erosion.
- Central irrigation district, California. Its physical, engineering
and business problems and conditions. W. H. Hall. Its legal
status. Wilson and Wilson. California state association of
irrigation districts. San Francisco, 1891. 63p.
- Central valley funds reallocated allowing use of revised plans.
Engineering news record. v.115. p.831. December 12, 1935.

- Central valley project important. E. Hyatt. Civil engineering.
v.4. p.482-486. September 1934. v.5.
p.31, 32. January 1935. Outline of project, to cost \$170,000,000,
for irrigation of Sacramento and San Joaquin valleys, provision of flood
protection and year-round navigation on Sacramento and San Joaquin
rivers, and stopping of salt water encroachment on lower parts of
valleys, involving construction of Kennett dam at Redding, 420 ft.
high, and of Friant dam, east of Fresno, 250 ft. high; hydro-electric
power will also be produced. Discussion.
- Checking up on irrigation practice. R. Carroll. California citro-
graph. v.19. p.202. June 1934.
- Chief engineer's report on the Grapeland irrigation district; its physical
and engineering problems and business status with a brief history of
its organization and conformation. F. C. Finkle. Los Angeles,
Times Mirror printing and binding house, 1892. 58p.
- Citrus, et al., versus the irrigator. G. P. Weldon. Pacific rural
press. v.117. p.390. March 23, 1929.
- Citrus irrigation and yields. H. E. Whalberg. California citrograph.
v.15. p.255. April 1930.
- Citrus irrigation cafeteria style. R. E. Hodges. Pacific rural
press. v.111. p.406. March 27, 1926.
- Citrus irrigation efficiency-its relation to water conservation.
M. B. Rounds. California citrograph. v.15. p.257.
April 1930.
- Climate, soil characteristics and irrigation methods of California.
C. W. Irish. U. S. Department of agriculture. Yearbook, 1895.
Washington, D. C., 1896. p.475-486.
- Colorado river in its relation to the Imperial valley, California.
Report on the utilization of the waters of the Colorado river for
irrigation and its relation to the Imperial valley, California. C. E.
Grunsky. Washington, D. C., Government printing office, 1917.
39p. U. S. 65th congress, 1st session. Senate. Document
no. 103.
- Community pumps for irrigation. J. T. Bartlett. Scientific american.
v.122. p.472. April 24, 1920.
- Conclusions and recommendations of the report of the California irrigation
and reclamation financing and refinancing commission. Submitted to
the governor of California, December 1, 1930. Sacramento, California
state printing office, 1930. 24p.

- Concrete pipe irrigation system, Delhi settlement. John R. Jahn.
Engineering news record. v.91. p.464-466. September 20,
1923. Million feet of pipe being laid by California state land
settlement; buried sand traps and other features.
- Conservation vs. lowering wells in Santa Clara. W. C. Tesche.
Pacific rural press. v.115. p.342. March 17, 1928.
- Conservation irrigation gives best results in Orange county. H. E.
Wahlberg. California citrograph. v.17. p.444-446.
September 1932.
- Conserving the water table in electric pumping. C. H. Lee. Journal
of electricity. v.44. p.271-274. March 15, 1920.
- Construction details of the Lindsay Strathmore irrigation district,
California. E. Court Eaton. Engineering news record. v.83.
p.348-351. August 21, 1919. Cement-lined canals and wood
and asphaltum-impregnated felt-covered steel pipe lines used.
- Cooperative investigations in California. U. S. Reclamation service
in cooperation with the northern California irrigation association.
Report on lower Pit river project. Prepared under the direction
of the Portland office of the U. S. Reclamation service, E. G. Hopson,
supervising engineer, T. H. Means, engineer. July 1915.
Washington, D. C., Government printing office, 1915. 55p.
- Cost of installing an overhead sprinkling system. F. H. Macpherson.
California citrograph. v.9. p.333. July 1924.
- Cost of irrigation water in California, 1930. Sacramento, Cal.,
California state printing office, 1930. 146p. California.
Department of public works. Division of water resources.
Bulletin no. 36.
- Cost of pumping water for irrigation. R. H. Cates. Pacific rural
press. v.123. p.158. February 20, 1932.
- Cost of water to irrigators in California. H. F. Blaney.
Sacramento, Cal., California state printing office, 1925. 66p.
California. Department of public works. Division of engineering
and irrigation. Bulletin no. 8.
- Cotton irrigation in California. P. J. Webster. California
countryman. v.8. p.8. February 1922.
- Courting coy millions for water development. R. E. Hodges. Pacific
rural press. v.100. p.638. November 13, 1920.
- Dam salt water from delta - but how? R. E. Hodges. Pacific rural
press. v.99. p.879. June 5, 1920.

- Deep irrigation proves profitable. F. G. Beyschlag. California cultivator. v.83. p.269. April 11, 1936.
- Description of irrigation enterprises. California. Board of agriculture. Report, 1917. p.214-233. Sacramento, Cal., 1918.
- Development and application of water near San Bernardino, Colton, and Riverside, Cal. Joseph Barlow Lippincott. Washington, D. C., Government printing office, 1902. 2v. U. S. Geological survey. Water supply and irrigation paper nos. 59 and 60.
- Development of the upper Sacramento river. Paul Bailey. Appendix to the summary report to the legislature of 1927 on the water resources of California and a coordinated plan for their development, containing cooperative report with U. S. Bureau of reclamation on Iron canyon project. Walker R. Young. Sacramento, Cal., California state printing office, 1928. 209p. California. Department of public works. Division of engineering and irrigation. Bulletin no. 13. Bulletin is part of investigation of water resources of State; investigation comprised survey of water supplies and flood flows throughout State, determination of their characteristics, estimate of present and future needs for water, and formulation of comprehensive and coordinated plan for future development in order to insure adequate water supplies for all purposes; appendix to summary report to Legislature of 1927 on water resources of California.
- Distribution of irrigation water in Tulare county. I. H. Althouse. California citrograph. v.16. p.266. April 1931.
- Distribution of waters of Kings river. California cultivator. v.55. p.456. October 2, 1920.
- District irrigation laws, California; decisions thereon by the Supreme court, notes and index. California. Attorney-general. Sacramento, Cal., 1891. 75p.
- Diversion of water from Sacramento river, California ... Report to accompany H. R. 11796. U. S. Congress. House of representatives. Committee on interstate and foreign commerce. Washington, D. C., Government printing office, 1906. 10p. U. S. 59th congress. House. Report no.3216.
- Does irrigation affect the quality of grapes? A. A. Jungerman. California cultivator. v.74. p.483. April 26, 1930.
- Don Pedro project of the Turlock irrigation district. R. W. Shoemaker. General electric review. v.26. p.736-740. November 1923. Construction details, with special reference to electrical equipment.

- Dual usage of water for domestic and irrigation purposes; Los Angeles city policy as applied to the Owens valley aqueduct. J.B. Lippincott. American water works association. Journal. v.28. p.1232-1239. September 1936.
- Early irrigation of walnuts essential. California cultivator. v.62. p.542. May 10, 1924.
- Economic aspects of a salt water barrier below confluence of Sacramento and San Joaquin rivers, 1931. Sacramento, Cal., California state printing office, 1932. 450p. California. Department of public works. Division of water resources. Bulletin no.28.
- Economical irrigation of alfalfa in Sacramento valley. S.H. Beckett and R.D. Robertson. California. Agricultural experiment station. Bulletin no.280. Berkeley, Cal., 1917. 273-294p.
- Economical irrigation practice. H.A. Brandt. California cultivator. v. 60. p.392. March 31, 1923.
- Effect of irrigation on soil temperatures. G.E.P. Smith. California citrograph. v.17. p.277+ May 1932.
- Efficient use of water affects alfalfa costs. F.H. Ernst. California cultivator. v.79. p.69+ July 30, 1932.
- El Dorado irrigation district, California. Western construction news. v.2. p.39-43. January 25, 1927. Present development and rate of growth; proposes present and ultimate development.
- Electricity makes rice industry possible. W.E. Camp. Journal of electricity. v.43. p.102-104. August 1, 1919.
- Emergency irrigation rate for garden farming at Alhambra, Cal. Engineering and contracting. v.49. p.459. May 8, 1918.
- Emergency pumping plant saved irrigation crops. H.F. McPhail. Engineering news. v.93. p.861. November 27, 1924.
- Empire-building irrigation; how an empire has been created in Fresno county, California. W. Robertson. Sunset. v.24. p.351-354. March 1910.
- Enrich the valleys with the stored waters. C.B. Messenger. California cultivator. v.60. p.583. May 19, 1923.
- Essentials of irrigation and cultivation of orchards. F.J. Veihmeyer and A.H. Hendrickson. California. Agricultural extension service. Circular no.50. Berkeley, Cal., 1936. 24p.

- Exchequer project of the Merced irrigation district. R. White.
Contractors' and engineers' monthly. v.12. p.45-52. March 1926.
Primarily an irrigation storage project requiring high masonry dam, work includes relocation of 17 miles of mountain railway, construction of long railway bridge on highest concrete piers ever used for this type of work and installation of 42,000 hp. hydroelectric plant.
- Experiences of pump users in California. Pacific rural press. v.99.
p.348. February 28, 1920.
- Every water appropriator involved. F. Adams. Pacific rural press.
v.100. p.791. December 18, 1920.
- Farm bureau demonstrations on value of soil auger. California citrograph.
v.8. p.341. August 1923.
- Farming with water. E.V. Wilcox. Country gentleman. v.85. p.6+
August 28, 1920.
- Features and water rights of Yuba river, California. Marsden Manson.
U.S. Department of agriculture. Office of experiment stations.
Bulletin no.100. Washington, D.C., 1901. p.115-130.
- Fertilization reduces water duty. B.E. Knapp. Pacific rural press.
v.105. p.132. February 3, 1923.
- Field work progresses on Central valley project in California. Engineering
news record. v.116. p.394. March 12, 1936.
- Financial and general data pertaining to irrigation, reclamation and other
public districts in California, prepared under the direction of California
irrigation and reclamation financing and refinancing commission, 1930.
Sacramento, Cal., California state printing office, 1931. 255p.
California. Department of public works. Division of water resources.
Bulletin no.37.
- First - seventh biennial report of the Department of engineering of the
state of California, 1907/08 - 1918/20. Sacramento, Cal., California
state printing office, 1908-1921. 7v.
- Flood control projects benefit citrus growers. J.M. Singer. California
citrograph. v.8. p.282. June 1923.
- Flow in California streams, being appendix "A" to report to the legislature
of 1923 on the water resources of California. Sacramento, Cal.,
California state printing office, 1923. 557p. California.
Department of public works. Division of engineering and irrigation.
Bulletin no.5.
- Fontana power irrigation development. C.H. Tallant. Journal of electricity
v. 44. p.207-208. March 1, 1920.

- For more water storage. W.M. Bristol. California cultivator.
v.58. p.68. January 21, 1922.
- Free electricity for Lassen county pumps. J.H. Currie. Pacific rural
press. v.127. p.592. June 30, 1934.
- Fresh water tide lands of California. J.P. Whitney. London. Printed
by D. Greenaway, 1874. 41p.
- Furrow irrigation in growing potatoes. R.G. Risser. Pacific rural
press. v.113. p.561. April 23, 1927.
- Further irrigation development desirable in California. Engineering news.
v.95. p.916. December 3, 1925.
- Future water conservation in southern California. Irrigation age. v.32.
p. 203. November 1916.
- Garden of Allah in Death Valley; how irrigation will cause date palms to
flourish in Furnace creek ranch. J.L. von Blon. Scientific
american. v.134. p.242-243. April 1926.
- Getting the best use of water. R.E. Hodges. Pacific rural press.
v.111. p.401. March 27, 1926.
- Good chance to start right; public land disposal in California. New
republic. v.20. p.191. September 17, 1919.
- Great irrigation enterprise. Some information relating to the Turlock
irrigation enterprise in San Joaquin, Cal., valley. Mining and
scientific press. v.76. p.641. June 18, 1898.
- Ground water resources of southern San Joaquin valley. S.T. Harding.
Sacramento, Cal., California state printing office, 1927. 146p.
California. Department of public works. Divisions of engineering
and irrigation and of water rights. Bulletin no. 11.
- Ground waters and irrigation enterprises in the foothill belt, southern
California. Walter C. Mendenhall. Washington, D.C., Government
printing office, 1908. 180p. U.S. Geological survey. Water
supply paper no.219.
- Growers see overhead irrigation systems in operation. California
citrograph. v.10. p.5 November 1924.
- Great new irrigation and power developments. C.H. Lee. Journal of
electricity. v.44. p.119-120. February 1, 1920.
- Head works of the Imperial canal. C.E. Grunsky. American society
of civil engineers. Proceedings. v.53. p.2183-2187; v.54.
p. 2103-2105. November 1927, September 1928.

- Horse drawn fresnos construct large canal as a relief project; branch of the All American canal. Engineering news record. v.114. p.422-423. March 21, 1935.
- How Los Angeles meters aqueduct water for irrigation. Engineering news record. v.85. p.451. September 2, 1920.
- How not to electrocute the farmer. J.E. Pickett. Pacific rural press. v.109. p.386. March 28, 1925.
- Hydro-electric power as a by-product of agricultural storage. E.N. Bryan. American society of civil engineers. Transactions. v.88. p.910-930. 1925.
- Hydrographic investigation of San Joaquin river, 1920-1923. H.A. Klugeland Harrison Smitherum. Sacramento, Cal., California state printing office, 1923. 120p. California. Department of public works. Division of water rights. Bulletin no.1.
- Imperial district reorganization. R.E. Hodges. Pacific rural press. v.105. p.624. May 19, 1923.
- Importance of proper irrigation of citrus lands. H.F. Wahlberg. California citrograph. v.9. p.292. June 1924.
- Influence of irrigation on expansion of agricultural industry in California. Engineering and contracting (Water works) v.59. p.1324-1325. June 13, 1923.
- Information concerning the Orland irrigation project, California. Elwood Mead, commissioner, Bureau of reclamation. Washington, D.C., U.S. Government printing office, 1932. 12p.
- Intake gate designed to skim Colorado river water. C.E. Grunsky and G.B. Anderson. Engineering record. v.75. p.432-433. March 17, 1917.
- Investigations of the economical duty of water for alfalfa in Sacramento valley, California, 1910-1915. Frank Adams and others. Sacramento, Cal., California state printing office, 1917. 78p. California. Department of engineering. Bulletin no.3.
- Irrigation. California. Board of agriculture. Report, 1918. Sacramento, Cal., 1919. p.240-258.
- Irrigation. California. Board of agriculture. Statistical report, 1916. Sacramento, Cal., 1917. p.192-210.
- Irrigation and drainage problem in Stanislaus co., Cal. C.S. Abbott. California journal of technology. v. 10. p.7-11. August 1907. Describes the irrigation water of the Modesto-Turlock district, the harm caused by too much water, and methods used to remedy the trouble.

- Irrigation and soil conditions in the Sierra Nevada foothills, California.
R.D. Robertson and J.W. Nelson. California. Agricultural experiment
station. Bulletin no.253. Berkeley, Cal., 1915. 323-378p.
- Irrigation by overhead sprinkling. H.A. Wadsworth. California
countryman. v.12. p.11. January 1926.
- Irrigation by overhead sprinkling in California. H.A. Wadsworth.
Agricultural engineering. v.7. p.177. May 1926.
- Irrigation district affairs for year. D.L. Kieffer. Pacific rural
press. v.109. p.389. March 28, 1925.
- Irrigation district develops old S.V.I. Pacific rural press. v.99.
p.748. May 8, 1920.
- Irrigation district served by series of pumping plants. Engineering
news record. v.97. p.224-226. August 5, 1926.
- Irrigation district for 350,000 acres. D.R. Hanhart. Pacific rural
press. v.100. p.203. August 14, 1920.
- Irrigation district formed 1920. Pacific rural press. v.101. p.418.
March 12, 1921.
- Irrigation districts. C.K. Fox. California cultivator. v.64.
p.618, 641. May 30-June 6, 1925.
- Irrigation districts in California for the years 1929-1933. Sacramento,
Cal., California state printing office, 1929-1933. 5v. California.
Department of public works. Division of water resources. Bulletin
no.21. Forms of districts for irrigation or water conservation
authorized by California statutes; development of irrigation district
law since 1897; active California irrigation district; inactive and
partially active irrigation districts; status of districts organized
for irrigation or water conservation other than irrigation districts.
- Irrigation districts in California 1887-1915. Frank Adams. Sacramento,
Cal., California state printing office, 1916. 151p. California.
Department of engineering. Bulletin no.2.
- Irrigation efficiency as applied to citrus orchards. W.M. Mertz.
California citrograph. v.11. p.278+ May 1926.
- Irrigation in arid San Fernando valley. A. Marple. Farm engineering.
v.4. p.45. September 1916.
- Irrigation in California. Scientific american. v.94. p.457-458.
June 2, 1906.
- Irrigation in California. Scientific american supplement. v.52.
p.21575. October 19, 1901.

Irrigation in California. F.W. Roeding. U.S. Department of agriculture. Office of experiment stations. Bulletin no.237. Washington, D.C., 1911. 62p.

Irrigation in California. San Joaquin and Tulare plains. Natural drainage system--volume of drainage--moteorology--soils of the Great plains and their surfaces--a comprehensive canal system--practicable features--Farmers' canal of Merced-Fresno canal-Chapman's canal--Centerville canals--People's canal--and San Joaquin and King's river canal company's canal--irrigation in practice. Review of the whole field. Sacramento, Cal., Record steam book and job printing house, 1873. 22p.

Irrigation in central California. D.J. Whitney. California cultivator. v.74. p.363. March 29, 1930.

Irrigation in Chula Vista district. F.M. Eaton. California citrograph. v.6. p.58. December 1920.

Irrigation in Imperial valley, California; its problems and possibilities. C.E. Tait. Washington, D.C., Government printing office, 1908. 56p. U.S. 60th congress. Senate. Document no.246.

Irrigation in relation to soil moisture and plant growth. F.J. Veihmeyer. Agricultural engineering. v.8. p.109-110. May 1927.

Irrigation in southern California. D.A. Willey. Scientific american. v.91. p.425, 439. December 17, 1904.

Irrigation in southern California. San Luis Rey flume company, August 1, 1887. Oceansido, San Diego county, Cal. Boston, Franklin press, R. Avery company, 1887. 45p.

Irrigation in southern California, issued for the use of the delegates to the International irrigation congress, Los Angeles, California, October 10-15, 1893, by the Publication committee of the congress. Harry Ellington Brook. Los Angeles, Los Angeles printing company, 1893. 48p.

Irrigation in the Sacramento valley, Calif. Samuel Fortier and others. U.S. Department of agriculture. Office of experiment stations. Bulletin no.207. Washington, D.C., 1909. 99p.

Irrigation in the San Joaquin valley, Calif. Victor M. Cone. U.S. Department of agriculture. Office of experiment stations. Bulletin no. 239. Washington, D.C., 1911. 62p.

Irrigation of rice. C.F. Dunshee. California countryman. v.11. p.9-10. April 1925.

Irrigation in the Imperial valley. J.M. Chesebrough. California cultivator. v.64. p.684. June 13, 1925.

- Irrigation investigations in California. Frank Adams. Pacific rural press. v.119. p.401. March 29, 1930.
- Irrigation investigations on the peat lands in the Sacramento-San Joaquin delta. L.N. Brown. Agricultural engineering. v.10. p.249-252. August 1929. Geology and reclamation of delta islands; irrigation system; crops grown; salt water encroachment; irrigation water field measurements for potatoes, corn, celery, sugar beets, onions, asparagus, etc.
- Irrigation investigations with field crops at Davis, and at Delhi, California, 1909-1925. S.H. Beckett and M.R. Huberty. California. Agricultural experiment station. Bulletin no.450. Berkeley, Cal., 1928. 24p.
- Irrigation lessons from the drouth of 1924. Frank Adams. California cultivator. v.64. p.109. January 31, 1925.
- Irrigation lessons from work of association laboratory. D. Waynick. California citrograph. v.8. p.348. August 1923.
- Irrigation near Bakerfield, California. C.E. Grunsky. Washington, D.C. Government printing office, 1898. 96p. U.S. Geological survey. Water supply and irrigation paper no.17.
- Irrigation near Fresno, California. C.E. Grunsky. Washington, D.C. Government printing office, 1898. 94p. U.S. Geological survey. Water supply and irrigation paper no.18.
- Irrigation near Merced, California. C.E. Grunsky. Washington, D.C., Government printing office, 1899. 59p. U.S. Geological survey. Water supply and irrigation paper no.19.
- Irrigation of agricultural lands: California statistics for state and counties. Washington, D.C., U.S. Bureau of the census, 1932. 16p.
- Irrigation of deciduous orchards and vineyards. F.J. Veihmeyer and A.H. Hendrickson. Pacific rural press. v.131. p.334-335. March 14, 1936.
- Irrigation of lemons for optimum vigor without reduced production. T.A. Lombard. California citrograph. v.21. p.366+ August 1936.
- Irrigation of oranges on the west side of the Sacramento river. J. Mills, jr. California cultivator. v.58. p.93. January 28, 1922.
- Irrigation of orchards by contour furrows. M.R. Huberty and J.B. Brown. California. Agricultural extension service. Circular no.16. Berkeley, Cal., 1928. 16p.

- Irrigation of rice in California. R.D. Robertson. California. Agricultural experiment station. Bulletin no.279. Berkeley, Cal., 1917. 254-270p.
- Irrigation of sugar beets. J.E. Coke. Pacific rural press. v.132. p.637. December 5, 1936.
- Irrigation of the arid region. Eugene Woldemar Hilgard. U.S. Department of agriculture. Report no.20. Washington, D.C., 1882. p.23-28.
- Irrigation of the desert. E.B. Criddle. Electric journal. v.17. p.193-194. May 1920.
- Irrigation of walnut orchards. M.R. Huberty. California cultivator. v.81. p.69. February 17, 1934.
- Irrigation or cultivation. C.A. Nidever. California cultivator. v.70. p.493. November 17, 1928.
- Irrigation organization. Journal of agriculture of California. v. 7. p.8. May 1921.
- Irrigated pastures. A.L. Campbell. California cultivator. v.76. p.560. May 23, 1931.
- Irrigating peach orchards. H.W. Johnstone. California cultivator. v.68. p.722. June 18, 1927.
- Irrigation practice in growing small fruits in California. W.A. Hutchins. California. Agricultural experiment station. Circular no.154. Berkeley, Cal., 1916. 35p.
- Irrigation problem. I.G. McBeth. California citrograph. v.15. p.256. April 1930.
- Irrigation problems and practices at lemon club. I.G. McBeth and D.D. Waynick. California citrograph. v.11. p.243. April 1926.
- Irrigation project in the Victor valley, Cal., is based on economic use of water. Engineering news record. v.80. p.178-180. January 24, 1918.
- Irrigation project of the Californias. S.J. Rothery. Engineering. v.115. p.310-311. March 9, 1923.
- Irrigation project of the Sacramento valley irrigation company. R.A. Balzari. Western engineering. v.3. p.106-112. August 1913. Illustrates and describes the Head gate plant, one of the largest electrically driven irrigation plants in California.

- Irrigation requirements of California lands, being appendix "B" to report to the legislature of 1923 on the water resources of California. Sacramento, Cal., California state printing office, 1923. 196p. California. Department of public works. Division of engineering and irrigation. Bulletin no.6. Agricultural lands; climatology; duty of water for irrigation; monthly irrigation demand; irrigation requirements of agricultural lands; net area irrigated in large agricultural districts; endurable deficiencies in an irrigation supply.
- Irrigation requirements of the arid and semiarid lands of the Pacific slope basins. S. Fortier and A.A. Young. U.S. Department of agriculture. Technical bulletin no.379. Washington, D.C., 1933. 69p.
- Irrigation resources of California and their utilization. Frank Adams. U.S. Department of agriculture. Office of experiment stations. Bulletin no.254. Washington, D.C., 1913. 95p.
- Irrigation suggestions for a dry year. Pacific rural press. v.107. p.370. March 15, 1924.
- Irrigation the key to arid agriculture. M.W. Kimball. California cultivator. v.74. p.380, 406. March 29-April 5, 1930.
- Irrigation to save water in a dry year. T.H. Means. Pacific rural press. v.99. p.737. May 8, 1920.
- Irrigation water and electric power from same storage reservoir; Melones dam. Scientific american. v.136. p.328-329. May 1927.
- Irrigation work in California, and its relation to the transmission of electricity. Thomas Roche. Royal society of New South Wales. Journal and proceedings. v.40. Appendix 2, p.82-100. Sydney, 1907.
- Is overhead irrigation here to stay? M.B. Rounds. California citrograph. v.11. p.152. March 1926.
- Keeping down cost and head loss on siphon outlets. Engineering news record. v.80. p.1169. June 20, 1918.
- Kings river investigation, water master's reports, 1918-1923. Sacramento, Cal., California state printing office, 1923. 239p. California. Department of public works. Division of water rights. Bulletin no.2.
- Klamath irrigation project, California-Oregon. Information compiled by United States reclamation service, October 1, 1909. n.p. 1909. 26p.
- Land and river waters of the Great valley and their quality for irrigation purposes. Eugene Woldemar Hilgard. U.S. Department of agriculture. Report no.20. Washington, D.C., 1882. p.50-58.

Land of before- and -after; miracle-story of Imperial valley, Cal.
W.V. Woehlke. Sunset. v.28. p.387-400. April 1912.

Large irrigation and power project in southern California. Engineering
record. v.57. p.406-408. April 4, 1908. Illustrated descrip-
tion of an extensive project under construction in San Bernardino
mountains.

Letter of transmittal and report of W.F. McClure, state engineer, concern-
ing the Owens valley--Los Angeles controversy to governon Friend
William Richardson. California. Department of public works. Division
of engineering and irrigation. Sacramento, California state printing
office, 1925. 101p.

Life of George Chaffey: A story of irrigation beginnings in California and
Australia. J.A. Alexander. Melbourne, Macmillan and co., ltd., 1928.
379p.

Madera and Merced plan greater irrigation. D.J. Whitney. Pacific
rural press. v.103. p.62. January 21, 1922.

Making water run uphill. Electrical west. v.65. p.130-132.
September 1930.

Marshall plan for all California irrigation held chimerical. Engineering
news record. v.86. p.273, 606. February 10, April 7, 1921.

Marshall plan for utilizing California's waters. Engineering news record.
v.86. p.994-996. June 9, 1921.

Marvel of irrigation; a record of a quarter century in the Turlock and
Modesto irrigation districts California. R.L. Adams and W.W. Bedford.
2d ed. Compiled for the Bond department, the Anglo & London Paris
national bank. San Francisco, 1921. 71p.

Measuring water for irrigation. J.E. Christiansen. California. Agri-
cultural experiment station. Bulletin no.588. Berkeley, Cal.,
1935. 96p.

Mechanical tests of pumping plants in California. J.N. LeConte and C.E.
Tait. U.S. Department of agriculture. Office of experiment stations.
Bulletin no.181. Washington, D.C., 1907. 72p.

Melones development. E.A. Crellin. Electrical west. v.59. p.218-
222. October 1927.

Merced irrigation district. E.C. Eaton. Western construction news.
v.1. p.19-25, 24-33, 21-27, 20-28. January 10, 25, February 25,
June 10, 1926. Early irrigation history of area; reasons for organ-
izing present quasi municipal project and steps taken leading to its
construction. Layout of Exchequer dam and power plant with contract
prices and quantities. Relocation of part of Yosemite valley rail-
road. Distribution and drainage.

- Merced irrigation district's drainage system. J.H. McCormick.
California cultivator. v.71. p.149. August 18, 1928.
- La Mesa, Lemon grove, and Spring valley irrigation district, California.
Western construction news. v.2. p.33-36. March 10, 1927. Construction of dam, pipe lines, flumes and siphons.
- Method of alkali control in the citrus orchard. J.A. Dennis. California citrograph. v.16. p.462+ August 1931.
- Million acres watered from Kings river. W.P. Boone. Pacific rural press. v.99. p.910. June 12, 1920.
- Modern irrigation system of the Salinas land company. Journal of electricity. v.55. p.252-253. October 1, 1925.
- Mojave river investigation, 1934. Sacramento, Cal., California state printing office, 1937. 249p. mimeographed. California. Department of public works. Division of water resources. Bulletin no.47.
- More irrigation needed for raisins. F.K. Howard. Pacific rural press. v.104. p.463. October 28, 1922.
- More water for the San Joaquin valley. S.S. Green. California countryman. v.16. p.8-9. September 1929.
- Movable pipe in a dry year. D.L. Kieffer. Pacific rural press. v.109. p.186. February 14, 1925.
- Myth of silt fertilization. S.S. Green. California countryman. v.16. p.6. October 1929.
- Nevada irrigation district, California, progress on construction of dams, tunnels and canals. Western construction news. v.1. p.83-92. October 10, 1926. District comprises 209, 610 gross acres of land.
- Nevada irrigation district construction progress. R. Matthew. Western construction news. v.1. p.36-37. December 10, 1926. Construction of mountain division works of Nevada irrigation district in Nevada county, Cal.; large part of work is near completion, including Milton Bowman tunnel, Bowman north rockfill dam, Bowman south concrete arch dam, and Bowman Spaulding conduit.
- New irrigation system for Santa Clara. Pacific rural press. v.99. p.191. February 7, 1920.
- New rice irrigation system. R.E. Hodges. Pacific rural press. v.105. p.462. April 14, 1923.
- New way to clear land for homes: the work of the Pittsburg syndicate in the Sacramento valley. M. Bennett. Sunset. v.24. p.259-362. March 1910.

- Oakdale irrigation district. L. Meyer. California cultivator.
v.65. p.349. October 10, 1925.
- Observation in citrus irrigation. D.J. Whitney. California
cultivator. v.83 p.392. May 23, 1936.
- Old irrigation system completed. L.H. Storgaard. Pacific rural
press. v.119. p.442. April 5, 1930.
- \$1,500,000 California irrigation project has well supply and 98 miles of
steel pipe line. Engineering and contracting. v.50.
p.41 - 43. July 10, 1918. Features of project in Central
Tulare county.
- Operation methods and results on the Lindsay Strathmore irrigation district.
E. Court Eaton. Engineering news record. v.83. p.474-478.
September 4, 1919. Well tests and reconstruction; operation results
of well and main pumping plants; water hammer in wood pipe lines;
repairs to steel pipes; gravity and pressure consumers' moters.
- Opportunities for farm ownership: Orland irrigation project, California.
Washington, D.C., U.S. Bureau of reclamation, 1927. 19p.
- Orchard irrigation plans. G.P. Weldon. Pacific rural press.
v.131. p.338. March 14, 1936.
- Our last dip out of the Colorado. E.V. Wilcox. Country gentleman.
v.85. p.84. September 11, 1920.
- Outline of matter and advance sheets of the report on the legislative,
administrative, technical, and practical problems of irrigation, in
course of preparation and publication. California. Department of
engineering. Sacramento, Cal., J.J. Ayres, superintendent of
state printing, 1884. 304p.
- Outlook for irrigation in California. Samuel Fortier. Pacific
rural press. v.103. p.344. March 25, 1922.
- Overhead irrigation applied to citrus husbandry. F.H. Macpherson.
California citrograph. v.11. p.209. April 1926.
- Owens valley aqueduct; abstract. J.B. Lippincott. Engineering
news record. v.116. p.887 - 888. June 18, 1936.
- Paraiso artificial. A.C. Granbeck. La hacienda. v.22.
p.131 - 133. May 1927.
- Pending irrigation and water legislation. F. Adams. Pacific
rural press. v.105. p.388. March 31, 1923.
- Permanence of electric pumping in California. C.H. Lee. Journal
of electricity. v.44. p.161 - 163. February 15, 1920.

Permissible annual charges for irrigation water in upper San Joaquin valley, 1930. Sacramento, Cal., California state printing office, 1930. 89p. California. Department of public works. Division of water resources. Bulletin no.34.

Permissible economic rate of irrigation development in California, 1930. Sacramento, Cal., California state printing office, 1930. 205p. California. Department of public works. Division of water resources. Bulletin no.35.

Perris irrigation district, California: its physical, engineering and business problems and conditions. W.H. Hall. San Francisco, Cal., 1891. 74p.

Physical characteristics of Kern river, California. F.H. Olmsted. Reconnaissance of Yuba river, California. Marsden Manson. Washington, D.C., Government printing office, 1901. 57p. U.S. Geological survey. Water supply and irrigation paper no. 46.

Pipe line no.2 and the lands irrigated under it at Corona, Riverside co., Cal. H. Clay Kellogg. Association of engineering societies. Journal. v.19 p.165 - 174. November 1897. Gives the source of the supply, materials used, the engineering work, etc.

Pit river investigation, 1933. Sacramento, Cal., California state printing office, 1933. 152p. California. Department of public works. Division of water resources. Bulletin no.41.

Pittsburg syndicate's latest: the slicing up of the Sacramento valley's big grain farms. M. Bennett. Sunset. v.24. p.100-103. January 1910.

Plan irrigation system on San Joaquin river. Engineering news record. v.86. p.141. January 20, 1921.

Plan to irrigate California by turning the San Joaquin river upside down. P. Bailey. Modern irrigation. v.2. p.13 -14,24. May 1926. Plan to import water needed by southern portion of state's great valley, which would employ channel of San Joaquin river as conduit for boosting Sacramento waters into San Joaquin valley floor.

Portfolio of new deal reconstruction; All American canal. Fortune. v.14. p.84. November 1936.

Possibility of the permanent reclamation of Tulare lake basin, California. Charles H. Lee. Engineering news. v.57 p.27-30. January 10, 1907. Discusses the problem of the reclamation of this overflow sand. Describes the situation and conditions, and considers its reclamation feasible both from an engineering and financial standpoint.

Poultry overhead saves operating expense. R.E. Hodges. Pacific rural press. v.113. p.385. March 19, 1927.

- Power and irrigation combined in Melones development. E.A. Crellin.
Electrical world. v.90. p.605-607. September 24, 1927.
Pacific gas and electric co. builds power plant and pays irrigation districts' water rental; low load factor and block load operation dictated simplicity and economy.
- Power development saves water for irrigation. W.G. Blossom.
California cultivator. v.62. p.91. January 26, 1924.
- Power from Kennett; Central valley project. Electrical west. v.72.
p.21-22. February 1934.
- Power generation on the All American canal. Power plant engineering.
v.38. p.148. March 1934.
- Practical application of water in citrus groves. F. Daybell.
California citrograph. v.16. p.266. April 1931.
- Precast concrete slabs for small irrigation structures; type of irrigation structure built of concrete lumber. R.W. Olmsted. Engineering news record. v.84. p.1167-1168. June 10, 1920.
- Precautionary measures in citrus irrigation. W.H. Williams.
California cultivator. v.80. p.219. April 29, 1933.
- Preliminary report on conservation and control of flood water in Coachella valley, California. C.E. Tait. Sacramento, Cal., California state printing office, 1917. 31p. California. Department of engineering. Bulletin no.4.
- Preparing six hundred acres of land for irrigation. F.W. Herron.
Engineering news record. v.82. p.337-339. February 13, 1919.
- President Roosevelt revises procedure for Central valley. Engineering news record. v.115. p.727. November 21, 1935.
- Prior irrigation rights are pro-rated to new rice. R.E. Hodges. Pacific rural press. v.99. p.739. May 8, 1920.
- Problem of securing closer relationship between agricultural development and irrigation construction. D. Weeks and C.H. West.
California. Agricultural experiment station. Bulletin no.435. Berkeley, Cal., 1927. 99p.
- Proceedings first Sacramento-San Joaquin river problems conference, 1924. Sacramento, Cal., California state printing office, 1924. 182 p.
California. Department of public works. Division of water rights. Bulletin no.3.
- Proceedings of the first water congress of southern California, held at Chamber of commerce, Los Angeles, March 13, 1905. Los Angeles, 1905. 63p.

- Proceedings of the State irrigation convention held at the Grand opera house, San Francisco, May 20, 21 and 22, 1886 ... with extracts from the press on irrigation. San Francisco, 1886. 205, 144p.
- Proceedings second Sacramento-San Joaquin river problems conference, and water supervisor's report, 1924. Sacramento, Cal., California state printing office, 1925. 233p.
California. Department of public works. Division of water rights. Bulletin no.4.
- Progress and results on one of best irrigation projects. Engineering news record. v.104. p.487. March 20, 1930. Excerpts from report on management of 21,000 acre Orland reclamation project in California.
- Progress report of cooperative irrigation investigations in California. Samuel Fortier. U.S. Department of agriculture. Office of experiment stations. Circular no.59. Washington, D.C., 1904. 23p.
- Progress report of co-operative irrigation investigations in California 1912-1914. Frank Adams. Sacramento, Cal., California state printing office, 1915. 74p. California. Department of engineering. Bulletin no.1. Reprinted from fourth biennial report of the Department of engineering for December 1, 1912 to November 30, 1914.
- Proper irrigation methods save water. M.H. Kimball. California cultivator. v.81. p.328. June 23, 1924.
- Proposed major development on American river. An analysis of its utility in the coordinated plan for the development of the water resources of California. A.D. Edmonston. Sacramento, Cal., California state printing office, 1930. 190p. California. Department of public works. Division of water resources. Bulletin no.24.
Report to joint legislative committee of 1927 on water resources and to the state department of finance.
- Prosperous Monterey - might be more so. R.E. Hodges. Pacific rural press. v.99. p.10. January 3, 1920.
- Pull of gravity moves citrus soils. D.M. Rutherford. Pacific rural press. v.131. p.572. May 2, 1936.
- Rainfall penetration and consumption use of water in Santa Ana river valley and coastal plain, 1930. Sacramento, Cal., California state printing office, 1930. 162p. California. Department of public works. Division of water resources. Bulletin no.33.
- Recent irrigation development in California. J.B. Lippincott. California cultivator. v.62. p.91+. January 26, 1924.

- Reclamation as an aid to industrial and agricultural balance. E.P. Goodrich and C.V. Davis. American society of civil engineers. Proceedings. v.62. p.1388-1405. November 1936.
- Reclamation bureau gets allotment for Central Valley work. Engineering news record. v.115. p.413. September 19, 1935.
- Reclamation of arid lands by irrigation. California. State board of trade. San Francisco, 1889. 52p.
- Reclamation of marsh and swamp lands and projected canals for irrigation in California: with notes on the canal systems of China and other countries. Addresses to the Legislature of California. J. Ross Browne. San Francisco, Alta California printing house, 1872. 60p.
- Reclamation work in southern California. C.J. Blanchard. Scientific american. v.92. p.499. June 24, 1905.
- Recovery of return and seepage waters in California. T.R. Simpson. Engineering news. v.94. p.751-754. November 6, 1924.
- Redemption of the Great valley of California. A.D. Footo. American society of civil engineers. Transactions. v.66. p.229 1910. Outlines a plan of basin irrigation and auxiliary works, similar to those used in the valley of the Nile, to protect from floods and store water for irrigation.
- Report. 1907-1920. California. Department of public works. Division of engineering. Sacramento, Cal., 1908-1921. 7v.
- Report. 1920/22 - 1926/28. California. Department of public works. Division of water rights. Sacramento, Cal., California state printing office, 1923-1929. 4v.
- Report of irrigation investigations in California. Elwood Mead and others. U.S. Department of agriculture. Office of experiment stations. Bulletin no.100. Washington, D.C., 1901. 411p.
- Report of Sacramento-San Joaquin water supervisor for the period 1924-1928. Sacramento, Cal., California state printing office, 1930. 413p. California. Department of public works. Division of water resources. Bulletin no.23.
- Report of the Board of commissioners on the irrigation of the San Joaquin, Tulare, and Sacramento valleys of the state of California. Washington, D.C., Government printing office, 1874. 91p.
- Report of the Committee on irrigation. C.E. Grunsky. California commonwealth club. Transactions. v.14. p.69-77. April 1919.

- Report of the Conservation commission of the state of California.
January 1, 1913. Transmitted to the governor and the legislature,
January 1, 1913. Sacramento, Cal., F.W. Richardson, superintendent
of state printing, 1912. 502p.
- Report of the duty of water committee of the Irrigation division on the
consumptive use of water in irrigation. American society of civil
engineers. Transactions. v.94. p.1349-1399. 1930.
Discussion presenting results of measurements in Ownes valley, California,
and other sections of California.
- Report of the engineer of the Sacramento valley irrigation and navigation
canal. William H. Bryan. Sacramento, D.W. Gelwicks, state printer,
1867. 52p. Survey made in behalf of the Sacramento
irrigation and navigation canal company.
- Report of the state engineer. 1878/79 - date. Sacramento, Cal.,
1880 - date.
- Report of the state engineer of California on irrigation and the irrigation
question. William Ham Hall. Sacramento, J.D. Young, superintendent
state printing, 1886-1888. 2v.
- Report of the state engineer to the Legislature of the state of California
session of 1880-1881. Sacramento, J.D. Young, superintendent
state printing, 1880-81. 2v.
- Report on Anderson Cottonwood irrigation district, by the Irrigation district
bond commission. March 8, 1916. Filed: Office of state controller,
January 14, 1915. Sacramento, California state printing office,
1916. 19p.
- Report on Iron canyon project, by the office of the U.S. Reclamation service
at Portland, Oregon, October, 1914, and report by Board of review
appointed by the Secretary of the interior, November, 1914. U.S.
Reclamation service. Portland, Press of Beach Thomas co., 1914.
147p.
- Report on Iron canyon project, California, by Homer J. Gault, engineer,
U.S. Reclamation service and W.F. McClure, state engineer of California.
May 1920. Washington, D.C., Government printing office, 1921.
76p.
- Report on irrigation districts in California, 1929-1933.
Sacramento, Cal., California state printing office, 1930-1934.
5v. California. Department of public works. Division of water
resources. Bulletin no.21.
- Report on Kennett reservoir development. An analysis of methods and extent
of financing by electric power revenue. Lester S. Ready.
Sacramento, Cal., California state printing office, 1929. 65p.
California. Department of public works. Division of engineering and
irrigation. Bulletin no.20.

Report on lower Pit river project. U.S. Reclamation service in cooperation with the northern California irrigation association. July 1915. Washington, Government printing office, 1915. 55p.

Report on Salt water barrier below confluence of Sacramento and San Joaquin rivers, California. Walker R. Young. Sacramento, Cal., California state printing office, 1929. 2v. California. Department of public works. Division of water resources. Bulletin no.22.

Report on the utilization of Mojave river for irrigation in Victor valley, California. Sacramento, Cal., California state printing office, 1918. 93p. California. Department of engineering. Bulletin no.5.

Report, state water problems conference ... November 25, 1916. Sacramento, California state printing office, 1916. 125p.

Report to legislature of 1931 on state water plan, 1930. Sacramento, Cal., California state printing office, 1930. 204p. California. Department of public works. Division of water resources. Bulletin no.25.

Reports on the irrigation resources of California. Frank Adams and others. Sacramento, Cal., F.W. Richardson, superintendent of state printing, 1912. 243p.

Rescue of drowning land. R.E. Hodges. Pacific rural press. v.105. p.135. February 3, 1923.

Rice irrigation. California cultivator. v.55. p.676. November 1920.

Riego en California. C.N. Johnston. La hacienda. v.23. p.269-272, 315-317. August-September 1928.

Sacramento river basin, 1931. Sacramento, Cal., California state printing office, 1933. 583p. California. Department of public works. Division of water resources. Bulletin no.26.

Santa Ana river basin. Plan for flood control and conservation of waste water. Present and future importation requirements. Sources of outside supply. Salinity intrusion. 1930. Sacramento, Cal., California state printing office, 1930. 73p. California. Department of public works. Division of water resources. Bulletin no.31.

Santa Ana investigation, flood control and conservation. Report prepared pursuant to acts of the legislature, chapter 476 of the statutes of 1925 and chapter 809 of the statutes of 1927. December 1, 1928. William S. Post. Sacramento, Cal., California state printing office, 1929. 2v. California. Department of public works. Division of engineering and irrigation. Bulletin no.19

- Santa Clara investigation, 1933. Sacramento, Cal., California state printing office, 1933. .271p. California.
Department of public works. Division of water resources. Bulletin no.42.
- Santa Clara's lowering water table. D.L. Kieffer. Pacific rural press. v.107. p.476. April 5, 1924.
- San Gabriel investigation. Sacramento, Cal., California state printing office, 1923-1929 3v. California.
Department of public works. Division of water rights. Bulletin nos. 5,6,7.
Bulletin no.5: Basic data, 1923-1926.
Bulletin no.6: Basic data, 1926-1928.
Bulletin no.7: Analysis and conclusions, 1929.
- San Joaquin valley irrigation, D.J. Whitney. California cultivator. v.62. p.94. January 1924.
- Saving 5,000,000 gallons of water. H.F. Kenyon. California cultivator. v.80. p.214. April 29, 1933.
- Selected list of references relating to irrigation in California. R. Venable. California. Agricultural experiment station. Circular no.260. Berkeley, Cal., 1923. 62p.
- Second progress report of cooperative irrigation investigations in California. Frank Adams. U.S. Department of agriculture. Office of experiment stations. Circular no.108. Washington, D.C., 1911. 39p.
- Should irrigation development be curbed? R.E. Hodges. Pacific rural press. v.113. p.621. May 7, 1927.
- Silt problem in the Imperial valley. F.C. Finkle. Engineering magazine. v.42. p.807-809. February 1912.
- Soaking the west side. L.H. Storgaard. Pacific rural press. v.121. p.400-401. April 4, 1931.
- Soil moisture of citrus groves discussed in practical terms. L.T. Sharp. California citrograph. v.15. p.255. April 1930.
- Some factors affecting the irrigation requirements of deciduous orchards. F.J. Veihmeyer. California. Agricultural experiment station. Hilgardia. v.2. p.125-290. Berkeley, Cal., 1927.
- Some lessons learned regarding irrigation. W.B. Camp. California cultivator. v.72. p.356. March 23, 1929.
- Some structures and construction methods on an irrigation project in Sacramento valley, California. Cornell civil engineer. v.20. p.407-415. May 1912. Illustrates and describes this project which will furnish water for 130,000 acres of land.

- Some suggestions on citrus irrigation. W.R. Schoonover. California
citrograph. v.15. p.257. April 1930.
- Some things we do not know about irrigation. S.H. Beckett. California.
cultivator. v.74. p.363. March 29, 1930.
- South coastal basin investigation; quality of irrigation waters.
Sacramento, Cal., California state printing office, 1933-1936.
2v. California. Department of public works. Division of
water resources. Bulletin no.40, 40A.
- South coastal basin. A cooperative symposium of activities and plans of public
agencies in Los Angeles, Orange, San Bernardino and Riverside counties,
leading to conservation of local water supplies and management of
underground reservoirs. 1930. Sacramento, Cal., California state
printing office, 1930. 79p. California. Department of public
works. Division of water resources. Bulletin no.32.
- South coastal basin investigation. Geology and ground water storage capacity
of valley fill. 1934. Sacramento, Cal., California state printing
office, 1934. 279p. California. Department of public works.
Division of water resources. Bulletin no.45.
- South coastal basin investigation. Records of ground water levels at wells.
Prepared in cooperation with all public bodies, cities, towns, water
companies and protective associations, in the area, as well as many
individuals. 1932. Sacramento, Cal., California state printing
office, 1932. 590p. California. Department of public works.
Division of water resources. Bulletin no.39.
- South Yuba water company. History and resources. New York, Printed by
A.B. King, 1894. 23p.
- Southern California truck farm irrigation. R.H. Gast. Market growers
journal. v.33. p.163-164. September 15, 1923.
- Southern California will have enough water. R.E. Hodges. Pacific rural
press. v.107. p.374. March 15, 1924.
- Spring irrigation in the orange groves. P.A. Boncquet. California
cultivator. v.68. p.348. March 19, 1927.
- Squeezing out the subsoil water. L.H. Storgaard. Pacific rural press.
v.119. p.400. March 29, 1930.
- Stable channels in erodible material; studies relative to the design of
All American canal. E.W. Lane. American society of civil
engineers. Transactions. v.102. p.123-194. 1937.
- Stanislaus and San Joaquin water company. George Davidson. n.p., 1896.
47p.

- Stanislaus, the county where the land owns the water and power. W.R. Wood.
California cultivator. v.65. p.211. September 5, 1925.
- Status of irrigation in San Diego county. R.R. McLean. California
cultivator. v.58. p.61. January 21, 1922.
- Steel arteries for Boulder dam. R.G. Skerrett. Scientific american.
v.151. p.191-193. October 1934.
- Storage of water on King's river, Cal. Scientific american supplement.
v.53. p.21919. March 22, 1902.
- Structural and constructional features of the supply system for the South
San Joaquin irrigation works, California. Engineering and
contracting. v.35. p.717-721. June 21, 1911.
- Studies in citrus orchard irrigation. W.M. Mertz. California
citrograph. v.8. p.98. February 1923.
- Studies on the irrigation of citrus groves. E.E. Thomas. California.
Agricultural experiment station. Bulletin no.341. 353-370p.
Berkeley, Cal., 1922.
- Study of irrigation heads in the Modesto and Turlock irrigation districts,
California. Engineering news. v.70. p.502-503.
September 11, 1913. Statements from a report by P.C. Berkefeldt on a
study of actual practice.
- Sub-irrigation problem solved. D.J. Whitney. Pacific rural press.
v.103. p.250. March 4, 1922.
- Success of Imperial valley assured. J. Klein. California cultivator.
v.83. p.235. March 28, 1936.
- Summary report on the water resources of California and a coordinated plan
for their development. A report to the legislature of 1927. Paul Bailey.
Sacramento, Cal., California state printing office, 1927. 49p.
California. Department of public works. Division of engineering and
irrigation. Bulletin no.12.
- Supplemental report on water resources of California. Report to the
legislature of 1925. Paul Bailey. Sacramento, Cal., California
state printing office, 1925. 51p. California. Department of
public works. Division of engineering and irrigation. Bulletin no.9.
- Take up de shubble and de hoe. R.H. Gast. Pacific rural press.
v.113. p.201. February 12, 1927.
- Tempering moisture supply to crop use. H.J. Wilder. Pacific rural
press. v.129. p.303. March 23, 1935.

- Terra Bella irrigation project obtains supply from wells and delivers water under pressure through steel pipe lines. S.E. Kieffer. Engineering and contracting. v.49. p.360-362. April 10, 1918. Account of a \$1,000,000 irrigation development depending entirely on underground water.
- Thirsty cities. M. White. Saturday evening post. v.201. p.18-19. May 18, 1929.
- Twelve million acres under irrigation. California cultivator. v.55. p.819. December 25, 1920.
- Underground waters and pumping therefrom. G.W. Trauger. American water works association. Journal. v.17. p.318-326. March 1927.
- Unfriendly attitude of the United States government towards the Imperial valley. Speeches and other matter covering different phases of the relations that have existed since 1901 and 1902. L.M. Holt. Imperial, Cal., 1907. 45p.
- Use of the water of the Yuba river. H.D.H. Connick. U.S. Department of agriculture. Office of experiment stations. Bulletin no.100. p.130-154. Washington, D.C., 1901.
- Use of water from Kings' river, California, 1918. Harry Barnes. Sacramento, Cal., California state printing office, 1920. 119p. California. Department of engineering. Bulletin no.7.
- Use of waters of the lower Colorado river for irrigation. Letter from the director of the geological survey. Washington, D.C., Government printing office, 1905. 8p. U.S. 58th congress. House. Document no.204.
- Using Los Angeles aqueduct water for irrigation purposes. C.W. Geiger. Municipal and county engineering. v.55. p.24-26. July 1918. Arrangements to furnish adequate water to irrigate the beet fields.
- Utilization of the waters of Mojave river. H.F. Blaney and P.A. Ewing. California cultivator. v.82. p.603. October 12, 1935.
- Valley irrigation bigger, cheaper. R.E. Hodges. Pacific rural press. v.102. p.603. December 10, 1921.
- Value and cost of water for irrigation in coastal plain of southern California. 1933. Sacramento, Cal., California state printing office, 1934. 189p. California. Department of public works. Division of water resources. Bulletin no.43.
- Value of fruit growth records in determination of irrigation needs. A.L. Simms. California citrograph. v.22. p.4. November 1936.

- Value of water in southern California. F. Thomas. Civil engineering. v.3. p.555-559. October 1933. Historical résumé of cost of its development for irrigation and domestic use; economic disasters resulting from droughts; early water developments; artesian wells; rising values of water during present century; Colorado river aqueduct water; charges for domestic water.
- Variation and control of salinity in Sacramento-San Joaquin delta and upper San Francisco bay, 1931. Sacramento, Cal., California state printing office, 1932. 440p. California. Department of public works. Division of water resources. Bulletin no.27.
- Ventura county investigation, 1934. Sacramento, Cal., California state printing office, 1934. 244p. California. Department of public works. Division of water resources. Bulletin no.46.
- Walnuts and irrigation - 1929. M.H. Kimball. California cultivator. v.72. p.347. March 23, 1929.
- Water and the land; California's problem. A.W. Atwood. Saturday evening post. v.199. p.18-19. July 3, 1926.
- Water appropriation from Kings river. C.E. Grunsky. U.S. Department of agriculture. Office of experiment stations. Bulletin no.100. p.259-325. Washington, D.C., 1901.
- Water commission act. Appropriation of water, investigation of water rights and resources, determination of water rights, state supervision over distribution of water. 1935. Compiled by Division of water resources. Sacramento, Cal., California state printing office, G.H. Moore, state printer, 1935. 53p.
- Water conservation for irrigation in California. F. Adams. California cultivator. v.64. p.615. May 30, 1925.
- Water conservation in southern California; symposium. California. Department of agriculture. Bulletin v.22. p.59-74. January 1933.
- Water development by tunneling at Ontario, Cal. James T. Taylor. Engineering news. v.36. p.411-412. December 24, 1896. Object of this tunnel was to intercept the underflow from the mountain range known as the Sierra Madre and divert the water so developed by gravity into the present system for an increased supply of the Ontario lands. Account of work thus far.
- Water from Sacramento river, California, for irrigation purposes. Report. (To accompany H.R. 11796). Washington, D.C., Government printing office, 1906. 11p. U.S. 59th congress. Senate. Report no.2900.

Water is king in California. F. Cuttle. American forests and
forest life. v.33. p.536-538. September 1927.

Water losses under natural conditions from wet areas in southern
California. 1933. Sacramento, Cal., California state printing
office, 1934. 176p. California. Department of public
works. Division of water resources. Bulletin no.44.

Part 1: Report of a cooperative investigation by the Division of
irrigation, Bureau of agricultural engineering, United
States department of agriculture.

Part 2: Report of a cooperative investigation by the Water resources
branch geological survey, United States department of the
interior.

Water more or less? S.H. Beckett. California countryman. v.13.
p.11. November 1926.

Water requirements for rice culture in Sacramento valley, Cal.
Engineering and contracting (Water works) v.59. p.1074-1076.
May 9, 1923.

Water resources of California. Report to the legislature of 1923.
Sacramento, Cal., California state printing office, 1923. 55p.
California. Department of public works. Division of engineering
and irrigation. Bulletin no.4.

Water resources of Kern river and adjacent streams and their utilization,
1920. Based on investigations in cooperation with Kern county, the
Kern county land company and the Tejon ranch company. Sacramento,
Cal., California state printing office, 1921. 209p.
California. Department of engineering. Bulletin no.9.

Water resources of Tulare county and their utilization, 1922.
Sacramento, Cal., California state printing office, 1922. 155p.
California. Department of public works. Division of engineering and
irrigation. Bulletin no.3.

Water storage, Cache creek, California. Albert E. Chandler.
Washington, D.C., Government printing office, 1901. 48p.
U.S. Geological survey. Water supply and irrigation paper no.45.

Water supplies in southern California. J.L. Van Ornum. Association
of engineering societies. Journal. v.18 p.128-140.
February 1897. Consideration of the physical characteristics of this
region, with a study from personal investigations made eighteen months
ago in the San Gabriel and San Bernardino valleys. The chief mode of
development is by tunneling, though it contains examples of all
important methods.

Water supply of Sacramento valley. F. Adams. California cultivator.
v.66. p.125. January 30, 1926.

Wells for irrigation. D.J. Whitney. California cultivator. v.63.
p.51. July 19, 1924.

- West side irrigation district. Western engineering. v.9.
p.91-96. March 1918. District comprising about 11,500 acres
near Tracy, Calif.
- Western irrigation district successfully refinanced. W. Durbrow.
Engineering news record. v.110. p.312-314. March 9, 1933.
- What irrigation does in the great San Joaquin valley. Irrigation age.
v.31. p.73. March 1916.
- Where does the water go? F.K. Howard. California cultivator. v.60.
p.386. March 31, 1923.
- Where pumping pays. C.F. Tucker. California cultivator. v.62.
p.189. February 16, 1924.
- Where water and cows win. L.L. De Bra. Hoard's dairyman. v.56.
p.68. August 9, 1918.
- Where water and power work transformation. R. Newman. Pacific rural
press. v.107. p.138. February 2, 1924.
- Will southern California draw on northern California for more water?
F. Adams. California cultivator. v.66. p.134.
January 30, 1926.
- Winter irrigation. A.L. Sonderegger. California citrograph. v.5.
p.103. February 1920.
- Woman director of 100,000 acre district. R.E. Hodges. Pacific rural
press. v.103. p.249. March 4, 1922.
- Wooden trestle replaced piecemeal by concrete structure. Engineering
news record. v.80. p.869-870. May 2, 1918.
Work in San Joaquin irrigation district.

CANADA.

- Adding to farm profits by irrigation. C.F. Carter. Current history
magazine. v.18. p.479-484. June 1923.
- Alberta irrigation development. Canadian engineer. v.51. p.345.
October 5, 1926.
- Alberta irrigation project of the Canadian Pacific railway co. J.S. Dennis.
Engineering record. v.57. p.740-742. June 13, 1908.
Illustrated account of the surveys and general engineering features.
- America's greatest irrigation project. Z.E. Black. Scientific
american. v.113. p.252-253. September 18, 1915.
- Annual report. 1919-date. Canada. Department of the interior.
Reclamation service. Ottawa, 1920-date.

- Annual report, 1927-28. Dominion water power and reclamation service, Canada. Ottawa, 1930. 105p. Data on and discussions of international waterway matters; water power resources of Canada; capital invested in water power; census of central electric station industry; major irrigation projects; alkali tests; duty of water experiments; seasonal use of water by sugar beets; drainage surveys and investigations; relation of precipitation to wheat grown per acre.
- Bessano dam and irrigation works. Engineering. v.119. p.63-65. January 16, 1925.
- Bow valley irrigation works of the Canadian Pacific railway company in Alberta. A.S. Dawson. Engineering and contracting. v.37. p.499-505. May 1, 1912. Map and illustrated description of this extensive development.
- Brooks aqueduct of Canada. Scientific american. v.114. p.385. April 8, 1916.
- Canadian irrigationists will discuss all phases of agriculture. R.J. Stead. Irrigation age. v.33. p.154. July 1918.
- Canadian Pacific railway company's irrigation project. Kittredge Wheeler. Scientific american. v.95. p.284-285. October 20, 1906. Illustrated description of the work to be carried out in southern Alberta.
- Canadian Pacific railway company's irrigation project in Alberta. Engineering record. v.65. p.332-333. March 23, 1912. Illustrates and describes a composite dam with earth body and concrete spillway which will divert water from the Bow river.
- Conveyance of irrigation water; practice in British Columbia. Engineering and contracting. v.38. p.274-275. September 4, 1912. Data from a report by Prof. B.A. Etcheverry dealing with problems of water measurement, conveyance of water, duty and application of water as found in Canadian practice.
- Development of irrigation in northwest Canada. F.J. Jennings. Engineering news record. v.92. p.616-618. April 10, 1924. Projects by individuals, companies and groups of farmers; government supervision.
- Duty of water experiments and farm demonstration work. Ottawa, Government printing bureau, 1915. 62p. Canada. Department of the interior. Irrigation branch. Bulletin no.4.
- East Creston, B.C., irrigation district. L.T. Leveque. Canadian engineer. v.61. p.194. November 24, 1931.
- Economics of irrigation practice. W.H. Snelson. Agricultural gazette of Canada. v.10. p.257-261. May 1923.

Farm water supply. F.H. Peters. Ottawa, J. de Labroquerie Taché,
printer to the King's most excellent majesty, 1919. 26p.
Canada. Department of the interior. Reclamation service. Irrigation
division. Bulletin no.5.

General report on irrigation and Canadian irrigation surveys. Canada.
Department of the interior. Surveys branch. 1894-1898.
Ottawa, Government printing bureau, 1895-1900.

In the matter of the application of the Creston reclamation company,
limited, for permission to construct certain permanent works in and
adjacent to the channel of the Kootenay river in the province of
British Columbia at Creston. Order of approval, application, hearing
1928. International joint commission (U.S. and Canada),
Washington, D.C., U.S. Government printing office, 1928. 85p.

In the matter of the application of the Creston reclamation company,
limited, to the International joint commission for permission to construct
certain permanent works in and adjacent to the channel of the Kootenai
river in the province of British Columbia at Creston. Motion on behalf of
the government of the United States for extension of time for filing
statement in response and for further hearings. November 23, 1927.
Washington, D.C., U.S. Government printing office, 1927. 6p.

Irrigated homemaking. D.H. Bark. Nor' west farmer. v.47.
p.7. February 20, 1928.

Irrigating an empire. H. Vanderhoof. World today. v.15.
p.861-865. August 1908.

Irrigation and community development. W.H. Snelson. Canadian
engineer. v.48 p.121-124. January 13, 1925.

Irrigation as applied in Saskatchewan. H.M. Goodman. Applied science.
v.7 new series. p.14-29. November 1912. Detailed discussion
of irrigation investigations and work, with references to the Dominion
government irrigation belt in Saskatchewan.

Irrigation in Alberta. E.E. Eisenhauer. Scientific agriculture.
v.16. p.270-274. January 1936.

Irrigation in British Columbia. Scientific monthly. v.3.
p.206-208. August 1916.

Irrigation in British Columbia. Ernest A. Cleveland. Engineering
journal (Engineering institute of Canada.) v.5. p.417-423.
August 1922. Review of irrigation in the province from earliest
undertaking to present extensive systems.

Irrigation in Saskatchewan and Alberta, comprising a synopsis of the
irrigation act and irrigation practice. Ottawa, Government
printing bureau, 1910. 26p. Canada. Department of the
interior. Irrigation branch. Bulletin no.1.

- Irrigation in southern Alberta. Canadian engineer. v.43.
p.151-152. July 18, 1922.
- Irrigation in the north-west territories. William Pearce.
Canadian engineer. v.5. p.52-53. June 1897.
General talk on the benefits of irrigation and the advantage to be
derived from its use in all localities.
- Irrigation in the north-west territories of Canada, 1902. Canada.
Department of the interior. Ottawa, 1903. 137p.
- Irrigation in the prairie provinces; 4,477 miles of canals. E.F. Drake.
London times trade supplement, Canadian section. p.36.
October 23, 1920.
- Irrigation in the provinces of Alberta and Saskatchewan 1906 and 1907.
Published by authority of the Hon. Frank Oliver, minister of the interior.
Ottawa, Government printing bureau, 1908. 84p.
- Irrigation in western Canada. Engineering. v.84. p.308-309.
August 30, 1907. Report of the first Canadian irrigation convention,
recently held at Calgary, Alberta.
- Irrigation in western Canada. Lawrence J. Burpee. Scientific american
supplement. v.62. p.25700-25702. September 29, 1906.
Illustrated article describing the extensive irrigation work in Alberta
undertaken by the Canadian Pacific railway.
- Irrigation investigations in Alberta. Agricultural gazette of
Canada. v.10. p.148-153. March 1923.
- Irrigation method used on W.M. Mertz's grove at Ontario. California
cultivator. v.12. p.101. January 1927.
- Irrigation of southern Alberta. Engineer. v.117. p.170-172.
February 13, 1914. Illustrated description of extensive works.
- Irrigation practice and water requirements for crops in Alberta.
Canada. Reclamation service. Ottawa, 1922. 59p.
Irrigation series bulletin no.6.
- Irrigation problems in west. Canadian engineer. v.49. p.258.
August 25, 1925.
- Irrigation project of the Southern Alberta land company. Engineering
record. v.63. p.589-591. May 27, 1911.
Map and illustrated description of this project in Canada, which
includes 200 miles of canals, a 360,000 ft reservoir, intake works and
a 2 mile siphon.
- Irrigation projects of the Canadian pacific railway company in Alberta.
A.S. Dawson. Canadian engineer. v.23. p.192-196.
July 18, 1912. Map and illustrated description of the Calgary project
especially.

- Irrigation results in 1916. Agricultural gazette of Canada. v.4.
p.124-127. February 1917.
- Irrigation situation in B.C. T.D. Pattullo. Agricultural journal
of British Columbia. v.7. p.158. September 1922.
- Irrigation surveys and water powers. Canadian engineer. v.24.
p.473-475. March 20, 1913. Information from a recent report
concerning work in progress in Alberta and Saskatchewan.
- Irrigation system of the Southern Alberta land co., ltd. Augustine H.
Ayers. Engineering and contracting. v.37. p.420-422.
April 10, 1912. Map and illustrated account of the work.
- Irrigation water divided between United States and Canada. B.E. Jones.
Engineering news record. v.85. p.1277-1279.
December 30, 1920.
- Irrigation works of the Canadian Pacific railway near Calgary, Alberta.
Canadian engineer. v.13. p.365-369. October 1906.
Illustrated account of this great engineering work.
- Irrigationists meet at Lethbridge; 14th annual convention of western
Canada irrigation association. Nor'west farmer. v.39.
p.1153-1154. August 20, 1920.
- Large Canadian irrigation projects. S.C. Reat. U.S. Bureau of
foreign and domestic commerce. Commerce reports no.262.
p.758-759. 1919.
- Large irrigation projects in western Canada. E.F. Drake. Contract
record and engineering review. v.35. p.419. April 27, 1921.
990,000 acres of irrigable land are involved in developments which
will proceed soon. Reclamation service to make surveys this year on
another 1,100,000 acres.
- Legal phases of irrigation development in Alberta. H.B. Muckleston.
Journal of engineering of the institute of Canada. v.3.
p.510-514. November 1920. History of irrigation law in
general, developments in Alberta, and procedure under present laws.
- Lethbridge irrigation enterprise in western Canada. F.S. Dyke.
Engineer. v.136. p.114-116, 146-147. August 3, 10, 1923.
System is designed to irrigate 150,000 acres in southern Alberta;
details of construction work and effects of a heavy flood.
- Lethbridge northern irrigation district in Alberta. C.M. Arnold and
H.G. Cockrane. Engineering news record. v.92. p.243-248.
February 7, 1924. Internal storage found cheaper than large canals;
controlled hydraulis jump utilized in grade reduction crops.

- Lethbridge northern irrigation project. P.M. Sauder. Canadian engineer. v.52. p.477-483. May 3, 1927.
Operation and maintenance of important irrigation scheme in Alberta; main factors that must be considered in design and construction of irrigation project; district contains irrigable area of 104,000 acres.
- Loi autorisant l'assainissement des terres fédérales par le drainage. International yearbook of agriculture legislation 1919. p.367-369. 1920.
- Maintenance of a Canadian irrigation flume; a 24 year old conduit successfully waterproofed with a coating of pitch and tallow. R.S. Stockton. Civil engineering. v.4. p.238-239. May 1934.
- Operation and maintenance of irrigation systems. R.S. Stockton. Engineering and contracting. (Water works) v.61. p.584-588. March 12, 1924.
- Poor man's chance. G.H. Cushing. Technical world. v.17. p.459-463. June 1912.
- Practical information on irrigation for British Columbia fruit growers. B.A. Etcheverry. Victoria, B.C., Printed by W.H. Cullen, printer to the King's most excellent majesty, 1912. 119p.
British Columbia. Department of agriculture. Bulletin no.44.
- Probable start this year on large irrigation scheme. E.F. Drake. Contract record. v.35. p.512-513. May 18, 1921.
Project for irrigation of 105,000 acres in northern Canada.
- Progress of Canadian Pacific railway irrigation in Alberta. Canadian engineer. v.26. p.110-113. January 1, 1914.
Illustrated description of development in the Bow river irrigation block.
- Protection of concrete by glazed tile; life of Canadian Pacific irrigation structures prolonged; use of hollow glazed tile in concrete dams and of glazed pipe as forms for piles. A. Griffin. Civil engineering. v.2. p.370-372. June 1932.
- Reclamation of waste lands in western Canada. E.F. Drake. Canadian engineer. v.44. p.119-122. January 9, 1923.
- Report of the proceedings. 1910. Western Canada irrigation association. Ottawa, 1911.
- Report on a public irrigation corporation bill accompanying and explaining the revised draft. H.W. Grunsky. Victoria, Printed by W.H. Cullin, printer to the King's most excellent majesty, 1914. 76p.

- Report on irrigation, 1913. Canada. Department of interior. Irrigation branch. Ottawa, Government printing bureau, 1914.
- Report on irrigation surveys and inspections. 1915-1919.
Canada. Department of the interior. Ottawa, 1916-1920.
- Report on the climatic and soil conditions in the Canadian Pacific railway company's irrigation project, western section (near Calgary, Alberta.) Ottawa, Government printing bureau, 1915. 24p.
Canada. Department of the interior. Irrigation branch. Bulletin no.3.
- Some engineering features of the Canadian Pacific irrigation project.
Municipal engineering. v.37. p.227-231. October 1909.
Illustrates and describes work in Alberta.
- Some present day irrigation problems. H.B. Muckleston. Canadian engineer. v.43. p.457-458. October 17, 1922.
- Southern Alberta land co.'s irrigation project. W. St. J. Miller.
Engineering news. v.72. p.354-357. August 13, 1914.
Describes an extensive irrigation system.
- Southern Okanagan irrigation project. Agricultural journal of British Columbia. v.6 p.140. August 1921.
- Topographical surveys on the Canadian Pacific railway irrigation scheme.
John Eric Newlands. Institution of civil engineers. Minutes of proceedings. v.185. p.252-262. 1910-11.
- Unusual irrigation system. Farmer's advocate. v.57. p.961. July 13, 1922.
- Urgency for further irrigation development in southern Alberta.
G.R. Marnoch. In conservation of soil fertility. p.79-82.
Ottawa, Canada, Committee of conservation, 1920.
- Use of irrigation water on farm crops. A.E. Palmer. Canada. Department of agriculture. Bulletin no.125. Ottawa, 1929. 51p.
- Water supply and irrigation schemes of the Prairie provinces.
G.N. Houston. Journal of the engineering institute of Canada. v.4. p.536-539. October 1921.
History of development, formation, ownership and control of irrigation districts.
- Western Canada irrigation congress calls for more surveys. Irrigation age. v.31. p.40. January 1916.

CHINA.

- Cooperation between the Organization for communications and transit of the League of nations and the national government of China. Report by the Committee of experts on hydraulic and road questions in China. Geneva, 1936. 213p.
- Das Wei-Pei landbewässerungswerk in der Provinz Shensi, China. H. Li. Bauingenieur. v.14. p.363-368. July 7, 1933. Article describing Wei Pei irrigation project in China.
- Famine prevention and relief projects. O.J. Todd. Far eastern review. v.28. p.361-373. August 1932.
- Flood control, navigation and irrigation projects for the Huai river system, China. Engineering. v.136. p.646-647. December 15, 1933.
- Getting Yellow river water on the Saratsi plain. O.J. Todd. Far eastern review. v.26. p.80-83. February 1931. Description of gravity irrigation project which is to give partial relief to area of nearly 2,000,000 mi. of flat farm land, lying south of Peiping-Suiyan railway and north of Yellow river immediately east of Tenkow station; construction of main canal over 40 mi. long, 45 to 60 ft. wide on bottom.
- Great Min river irrigation project; the Chinese as irrigation and bridge engineers. E.W. Lane. Civil engineering. v.1. p.397-400. February 1931.
- Irrigation by electric power in Kiangsu. Far eastern review. v.23. p.360-361. August 1927.
- Irrigation in China. Times trade and engineering supplement. v.13. p.438. January 12, 1924. Large scheme for Shensi province which has been approved by China famine relief commission.
- Irrigation in Fukien. Far eastern review. v.21. p.222-223. May 1925.
- Irrigation in the Celestial empire. Engineering record. v.89. p.180. January 28, 1899. Illustrated account of Chinese works 2000 years old which are constructed and maintained in an unusual, though successful manner.
- Irrigation of ricefields. Electrician. v.109. p.310. September 9, 1932.
- Key economic areas in Chinese history, as revealed in the development of public works for water-control. Choating Chi. London, G. Allen & Unwin ltd., 1936. 168p.

- Kuan Hsien irrigation works. Engineer. v.86. p.403-404.
October 21, 1898. Description of one of the oldest irrigation works
in the world taken from a report of a journey made by S.J.L. Litton
to north Ssu-Ch'uan.
- Li Ping: modern irrigation engineer of ancient China. H.K. Richardson.
Asia. v.19. p.441-444. May 1919.
- Projects of the flood control, navigation and irrigation for the Huai river
system. China. Huai river commission. Bureau of engineering.
Huai-Yin, China, 1930. 134p. (Official technical report No.1.)
- Regulation of the Fen Ho for flood protection and conservancy of winter
flow as an aid to irrigation. O.J. Todd. Far eastern review. v.30.
p. 165-171, 221-230. April-May, 1934.
- Satochou irrigation project. J. Davies. Far eastern review. v.26.
p.340-341. July 1930.
- Shih Lu irrigation work. C.P. Hsueh. Far eastern review. v.24.
p.277-279. June 1928.
- Shih Lu irrigation works. C.P. Hsueh. Association of Chinese and
American engineers. Journal. v.9. p.3-13. April 1928.
Source of water supply; application of water; brief outline of whole
system is sketched; diversion canal; headworks gates; main canal;
bridges; cost data; benefits to be derived.
- Szechuan's Chengtu county irrigation project. D.S. Dye. Lingnan
science journal. v.8. p.661-677. December 1929.
- Travaux secondaires d'hydraulique agricole en Cochinchine. J. Rodin.
Saigon, C. Ardin et fils, 1918. 25p.
- Wei Pei irrigation work. Far eastern review. v.29. p.60-71.
February 1933. History of irrigation in Shensi province since
ancient times; details of project carried out by engineers of China
international famine relief commission; hydraulics of King river;
remodeling of old canal; canal structures; bridges; new cut-off canal;
canal reconstruction as work-relief project.
- Wei Pei irrigation project. O.J. Todd. Association of Chinese and
American engineers. Journal. v.13. p.1-16. September 1932.
History of irrigation on Wei Pei plain; modernization of system,
including construction of low concrete diversion weir 250 ft. long,
across King river, tunnel 1300 ft. long in difficult rock, and open-cut
canal 3.85 mi. long; total cost about \$250,000.

COLORADO.

- Acquirement of water rights in the Arkansas valley in Colorado. J.S. Greene. Washington, D.C., U.S. Government printing office, 1903. 83p.
U.S. Department of agriculture. Office of experiment stations. Bulletin no.140.
- Agricultural program for the irrigated region of northern Colorado. T.H. Summers. Colorado. Agricultural college. Extension service. Fort Collins, Colo., n.d. 70p.
- Amount of water used to irrigate mountain hay land; a study in valuing water rights. M.E. Bunger. Engineering news record. v.78. p.488-489. June 7, 1917.
- Artesian wells upon the great plains; being the report of a geological commission appointed to examine a portion of the great plains east of the Rocky mountains and report upon the localities deemed most favorable for making experimental borings. U.S. Department of agriculture. Washington, D.C., Government printing office, 1882. 37p.
- Black alkali in the San Luis valley. W.P. Headden. Colorado. Agricultural experiment station. Bulletin no.231. Fort Collins, Colo., 1917. 15p.
- Boom on Colorado irrigation. Harper's weekly. v.46. p.689. May 31, 1902.
- California and the Boulder dam. Gleamings in bee culture. v.57. p.513-516. August 1929.
- Colorado irrigation laws, containing all the laws of the state of Colorado which apply to or in any manner affect the irrigating interests. Denver, Col., 1894. 40p.
- Colorado river basin. Hearings before the Committee on irrigation and reclamation, United States senate, 69th congress, 1st session pursuant to S. Res. 320. (68th congress, 2d session) directing the committee on irrigation and reclamation, or a duly authorized subcommittee thereof to make a complete investigation with respect to proposed legislation relating to the protection and development of the Colorado river basin. Washington, D.C., U.S. Government printing office, 1925-26. 6 pts.
- Pt.1. Los Angeles and San Diego, Cal. October 26,27, 1925.
 - Pt.2. El Centro, Calif. October 30, 1925.
 - Pt.3. Yuma and Phoenix, Ariz. October 31, November 2, 1925.
 - Pt.4. Las Vegas, Nev. November 2, 1925.
 - Pt.5. December 8,9,10, 1925.
 - Pt.6. December 15,16,17,18,19,22, 1925.
- Colorado river basin. Hearings before the Committee on irrigation and reclamation, United States senate, 70th congress, 1st session, on S. 728 and S. 1274, bills to provide for the construction of works for the protection and development of the lower Colorado river basin, for the approval of the Colorado river compact, and for other purposes. January 17 to 21, 1928. Printed for the use of the Committee on irrigation and reclamation. Washington, D.C., U.S. Government printing office, 1928. 517p.

- Colorado river development urged. W.R. Wood. California cultivator.
v.70. p.90. January 28, 1928.
- Conservation lesson from the cliff-dwellers. S.L. Sweet. American
forests. v.30. p.654-657† November 1924.
- Controversy on the use of water from Arkansas river. C.L. Patterson.
American water works association. Journal. v.22. p.597-613.
May 1930.
- Denver secures PWA loan for water diversion. Engineering news
record. v.113. p.730-731. December 6, 1924.
- Difficulties of mountain irrigation engineering. H.A. Crafts.
Scientific american. v.79. p.214.
October 1, 1898. Illustrates various features of mountain construction
known as North Fork ditch, in Colorado.
- Distribution of water: Powers and duties of irrigation officials in
Colorado. H.N. Haynes. Colorado. Agricultural experiment station.
Bulletin no.67. Fort Collins, Colo., 1901. 3lp.
- Driving a water tunnel under Continental Divide; Twin Lakes transmountain
tunnel at Independence Pass, Colorado. Engineering news record.
v.113. p.752-754. December 13, 1934.
- Economic limits of cost of water for irrigation, Boulder county, Colorado.
R.P. Teele and Paul A. Ewing. A preliminary report. Washington,
D.C., 1926. 35p. mimeographed.
- Economic limits of cost of water for irrigation, Julesburg irrigation
district. Colorado. A preliminary report. R.P. Teele and Paul A. Ewing.
Washington, D.C., 1926. 35p. mimeographed.
- Economic limits of cost of water for irrigation, Larimer county, Colorado.
A preliminary report. R.P. Teele and Paul A. Ewing. Washington, D.C.,
1926. 3lp. mimeographed.
- Economic limits of cost of water for irrigation, Morgan county, Colorado.
A preliminary report. R.P. Teele and Paul A. Ewing. Washington, D.C.,
1926. 32p. mimeographed.
- Economic limits of cost of water for irrigation, North Sterling irrigation
district, Logan county, Colorado. R.P. Teele and Paul A. Ewing. A
preliminary report. Washington, D.C., 1925. 35p. mimeographed.
- Economic limits of the cost of water for irrigation, Weld county, Colorado.
A preliminary report. R.P. Teele and Paul A. Ewing. Washington,
D.C., 1926. 3lp. mimeographed.
- Economic limits of the cost of water for irrigation, Henrylyn irrigation
district, Colorado. R.P. Teele and Paul A. Ewing. A preliminary
report. Washington, D.C., 1926. 36p. mimeographed.

- Economics of crop production on the Uncompahgre valley reclamation project.
William Melcher. Madison, Wis., 1931. 132p.
- Exchange of water in northern Colorado. R.G. Hemphill. Agricultural
engineering. v.3. p.202-204. December 1922.
- Factors influencing the establishment of irrigated pastures in northern
Colorado. H.C. Hanson. Colorado. Agricultural experiment
station. Bulletin no.378. Fort Collins, Colo., 1931. 53p.
- Factory without chimneys; Lamar, Prowers county, Colo. F. Tilden.
World's work. v.59. p.74-77. October 1930.
- Facts about irrigation in Colorado. Rural New Yorker. v.86.
p.1074. August 20, 1927.
- Farm notes for 1893. W.W. Cooke and F.L. Watrous - Garden notes for 1893.
M.J. Huffington and C.S. Crandall - Seeding, tillage and irrigation.
F.A. Huntley. Colorado. Agricultural experiment station. Bulletin
no.26. Fort Collins, Colo., 1894. 31p.
- Farm of the future; a brief exposition of the important place that irrigation
is occupying as a factor in 20th century agriculture in Prowers co.,
Colorado together with information regarding the soil, climate, crops,
etc. of that part of the valley of the Arkansas. Holly, Col., 1901.
63p.
- Grand valley irrigation project. Washington, D.C., U.S. Reclamation
service, n.d. 16p.
- Grand valley project. S.O. Harner. Irrigation age. v.33.
p.76-77. May 1918.
- Great Gunnison irrigation project. Albert Wilhelm. Scientific american
supplement. v.68. p.184. September 18, 1909.
Illustrated brief description of the recently completed irrigation
system of the Uncompahgre valley.
- Immense drainage project. Richard H. Edmonds. Manufacturers
record. v.35. p.87-88. March 3, 1899.
An account of an irrigation development in the Arkansas river valley,
in Prowers co., Colorado, through the enterprise of New York capitalists.
- Inter-water-shed diversions by tunnels on United States reclamation
projects; Gunnison tunnel. E.B. Debler. American society of
civil engineers. Transactions. v.94. p.346-351. 1930.
- Inundation of the Salton basin by the Colorado river and how it was caused.
Allen Day. Scientific american. v.94. p.310-312.
April 14, 1906. Describes and illustrates an inundation of great
magnitude caused by work in connection with irrigation of a portion of
the Colorado desert.

- Irrigated agriculture in the San Luis valley. V.M. Cone and Alvin Kezer.
Colorado. Agricultural experiment station. Bulletin no.209.
Fort Collins, Colo., 1915. 32p.
- Irrigated lands in the Arkansas valley. James W. Steele. Chicago,
Ill., H.O. Shepard co., 1905. 35p.
- Irrigation from Big Thompson river. John E. Field. Washington, D.C.,
Government printing office, 1902. 75p. U.S. Department of
agriculture. Office of experiment stations. Bulletin no.118.
- Irrigation in Colorado. C.W. Beach and P.J. Preston. Washington, D.C.,
Government printing office, 1910. 48p. U.S. Department of
agriculture. Office of experiment stations. Bulletin no.218.
- Irrigation in northern Colorado. R.G. Hemphill. Washington, D.C.,
Government printing office, 1922. 85p. U.S. Department of
agriculture. Department bulletin no.1026.
- Irrigation in the Grand valley, Colorado, 1901. Washington, D.C.,
Government printing office, 1902. 265-286p. U.S. Department of
agriculture. Office of experiment stations. Bulletin no.119.
- Irrigation laws and instructions to superintendents and water commissioners,
Colorado. Denver, 1894. 228p.
- Irrigation laws and instructions to superintendent and water commissioners,
Colorado. Published by state engineer. Denver, Col., Smith-
Brooks printing co., state printers, 1893. 197p.
- Irrigation near Greeley, Colorado. David Boyd. Washington, D.C.,
Government printing office, 1897. 90p.
U.S. Geological survey. Water-supply and irrigation paper no.9.
- Irrigation of agricultural lands. Colorado statistics for state and
counties. U.S. Bureau of the census. Washington, D.C.,
U.S. Government printing office, 1931. 15p.
- Irrigation of the delta of the Colorado. Scientific american.
v.85. p.358. December 7, 1901.
- Irrigation of the Yuma valley. Day Allen Willey. Scientific american.
v.99. p.73-74. August 1, 1908. Illustrates
and describes the construction of the extensive mileage in a connection
with the Yuma project.
- Irrigation statutes. Revised statutes of Colorado, 1908, also laws passed
by the seventeenth general assembly, relating to irrigation and
supreme court decisions. Published by authority. Denver,
Smith-Brooks printing co., state printers, 1909. 284p.
- Law of water for irrigation in Colorado. Denver, Col.,
W.H. Lawrence & co., 1886. 127p.

- Supplement containing all the legislation adopted by the Colorado general assembly, session of 1887, and all additional decisions down to May 15th 1887, etc. Denver, Col., W.H. Lawrence & co., 1887. 20p.
- Laws and regulations relative to the distribution of water by superintendents of irrigation and water commissioners, in Colorado. Issued from the state engineer's office. Denver, 1887. 33p.
- Metropolitan water district and the Colorado river aqueduct. F. Thomas. California citrograph. v.15. p.258. April 1930.
- Montrose irrigation canal, Colorado. W.P. Hardesty. Engineering news. v.41. p.178-179 March 23, 1899. Illustrated description of features of interest of a canal which irrigates about 6000 acres.
- Natural menace becomes national resource. R.E. Hodges. Pacific rural press. v.117. p.390. March 23, 1929.
- New records in driving a single-heading tunnel; Twin lakes tunnel in Colorado. S.O. Andros. Mining and metallurgy. v.15. p.441-442. November 1934.
- Peculiar features of irrigation engineering in Colorado. H.A. Crafts. Engineering magazine. v.14. p.829-841. February 1898. Fully illustrated account of irrigation methods in Colorado with details of ditch construction and data as to cost, capacity, and operation.
- Practical irrigation in Colorado. U.S. Department of agriculture. Report, 1871. Washington, D.C., 1872. p.254-275.
- Project of the Costilla estates development company. W.D. Waltman. Engineering record. v.63. p.130-134. February 4, 1911. Illustrated description of an interesting irrigation project in Colorado, owned by a private corporation.
- Pueblo-rocky ford irrigation project. Engineering record. v.64. p.141-142. July 29, 1911. Illustrated description of the Bradford-Huerfano works in Colorado.
- Reservoir system of the Cache la Poudre valley. Edwin S. Nettleton. Washington, D.C., Government printing office, 1901. 48p. U.S. Department of agriculture. Office of experiment stations. Bulletin no.92.
- Report of committee on irrigation investigations of the Senate. By authority of S.R. no.16 of the seventeenth general assembly (Senate journal, 1909, p.1092. Denver, 1911. 16p.

Report of the Commission appointed by his excellency, the governor of the state of Colorado, to revise the laws of the state regulating the appropriation, distribution and use of water, with the draft of a bill prepared by the Commission for enactment by the General assembly. Denver, 1890. Printed by authority. Denver, Colo., Collier and Cleaveland lith. co., state printers, 1890. 300p.

San Luis valley, Colorado. San Francisco, Cal., National irrigation congress, Publicity committee, 1907. 15p.
National irrigation congress. Publicity series. Bulletin no.2.

Some aspects of irrigation development in Colorado. George G. Anderson. Denver, 1909. Colorado scientific society. Proceedings. v.9. p.273-314.

Some late features of the hydraulics of irrigation. Engineering record. v.33. p.307. April 4, 1896.

Soybeans under irrigation in Colorado. D.W. Robertson and others. Colorado. Agricultural experiment station. Bulletin no.392. Fort Collins, Colo., 1932. 24p.

Standley lake irrigation system near Denver, Colorado. Engineering record. v.60. p.424-426, 461-464. October 16, 23, 1909. Illustrated description of a system of extensive works for the storage of water and its delivery to about 200,000 acres of land.

State of Kansas, complainant, vs. the state of Colorado, defendant. no.10. Brief of complainant. Original proceedings. n.p., 1902. 155p.

State of Kansas, complainant, v. state of Colorado et al., and the United States, intervenor. Brief for the United States on final hearing. Washington, D.C., 1906. 223p.

State of Kansas, complainant, vs. the state of Colorado et al., defendants. The United States of America, intervenor. no.7, original. Brief of complainant on final hearing. n.p., 1915. 256p.

State of Kansas, complainant, vs. the state of Colorado, et al., defendants, the United States of America, intervenor. Brief on behalf of the state of Colorado on final hearings. n.p., 1905. 352p.

Storage of water on Cache la Poudre and Big Thompson rivers. C.E. Tait. U.S. Department of agriculture. Office of experiment stations. Bulletin no.134. Washington, D.C., 1903. 100p.

Study of Boulder dam project with special reference to flood control, irrigation, Los Angeles water supply and electric power. S.S. Wyer. Columbus, Ohio, Ohio Chamber of commerce, 1928. 16p.

- Tabulation of water right decrees, state of Colorado; Irrigation division no.1; Water district nos.1,2,3,4,5,6,7,8,9,23,46,47,48,64 and 65. C.C. Hezmalhalch. Denver, Col., Smith-Brooks printing company, 1920. 205p.
- Their currents turned away. H.A. Crafts. Harper's weekly. v.41. p.586-587. June 12, 1897. Describes the modes of storing water for irrigation, and gives an illustrated account of the diversion of water from the head of the Big Laramie river to the Cache la Poudre river.
- Tunnel is holed through; Platt Rogers, etc. completes bore under Colorado Rockies with gala celebration. Explosives engineer. v.13. p.85-87. March 1935.
- Uncompahgre project wins concessions. Irrigation age. v.32. p.117-118. June 1917.
- Uncompahgre valley and the Gunnison tunnel. Barton W. Marsh. Montrose, Colo., Marsh and Torrence, 1905. 151p.
- Uncompahgre valley irrigation project. Washington, D.C., U.S. Reclamation service, n.d. 23p.
- Uncompahgre valley project. F.D. Pyle. Irrigation age. v.33. p.89. May 1918.
- Water resources of the state of Colorado. Abraham Lincoln Fellows. Washington, D.C., Government printing office, 1902. 151p. U.S. Geological survey. Water supply and irrigation paper no.74.
- Watering the Uncompahgre valley. Arthur Chapman. Review of reviews. v.40. p.177-182. August 1909. Illustrated account of this nearly completed irrigation project; which will reclaim more than 150,000 acres of land.
- Waters of the Rio Grande, a contribution to the hydrology of the San Luis valley, Colorado. William P. Headden. Colorado. Agricultural experiment station. Bulletin no.230. Fort Collins, Colo., 1917. 62p.
- Waters of the Rio Grande and its tributaries. Letter from the secretary of the interior, transmitting, by direction of the President, orders and regulations of the Interior department touching use, appropriation or disposition for irrigation of the waters of the Rio Grande and its tributaries in Colorado and New Mexico. Washington, D.C., Government printing office, 1911. 197p. U.S. 62d congress. House. Document no.39.
- West basin of the Colorado river. J.M. Hess. Irrigation age. v.33. p.8-11. March 1918.

West is east; tunnelling under the Continental Divide to provide irrigation water at Ordway, Colorado. M.R. Budd. Explosives engineer.
v.12. p.349-355+ December 1934.

What Colorado river development means to the southwest. E.F. Scattergood.
California cultivator. v.72. p.354. March 23, 1929.

What do you know about Boulder dam? D.L. Kieffer. Pacific rural press.
v.115. p.683. June 2, 1928.

COLORADO RIVER.

Analysis of Boulder canyon project act, and text of Colorado river compact-reclamation law, Federal water power act, Kinkaid act. Colorado river commission. Sacramento, 1930. 114p.

Austin dam. T.U. Taylor. Washington, D.C., Government printing office, 1900. 52p. U.S. Geological survey. Water supply and irrigation paper no.40.

Big job of harnessing western waters. W.E. Warne. Nation's agriculture.
v.11. p.4-5+ April 1936.

Boulder canyon project. Wesley R. Nelson. Smithsonian institution.
Annual report, 1935. Washington, D.C., 1936. p.429-452.

Boulder canyon project. "To convert a natural menace into a national resource". Compilation of data and information relative to the Colorado river development. Colorado river commission of the state of California. Sacramento, California state printing office, 1930. 114p.

Closing the break of the Colorado river into the Salton Sink, southern California. H.T. Cory. Engineering news. v.56. p.671-674.
December 27, 1906. An account of this disaster while diverting a part of the water of this river for irrigation, and of the attempts made to restore the river to its old bed.

Closing the new break in the Colorado river. H.T. Cory. Engineering record. v.55. p.293-295. March 2, 1907.
An illustrated description of the break occurring in December 1906, and the method of closing it.

Colorado river. Engineering news record. v.94. p.57-63.
January 8, 1925. Physical data of problem as basis for engineering opinion; water data; irrigation and power possibilities; flood dangers and control; relations with Mexico; state relations; efforts to solve Colorado problem.

Colorado river and Arizona's interest in its development. G.E.P. Smith. Arizona. Agricultural experiment station. Bulletin no.95.
Tucson, Ariz., 1922. 527-546p.

- Colorado river and its utilization. E.C. LaRue. Washington, D.C.,
Government printing office, 1916. 23lp. U.S.
Geological survey. Water supply paper no.395.
- Colorado river and the Boulder canyon project. Historical and physical
facts in connection with the Colorado river and lower basin
development. Colorado river commission of the state of California.
Sacramento, California state printing office, H. Hammond, state
printer, 1931. 400p.
- Colorado river aqueduct; manual of instructions for concrete inspectors.
F.E. Weymouth, general manager and chief engineer.
Los Angeles, Metropolitan water district of southern California, 1935.
56p.
- Colorado river basin. Hearings ... 68th congress, 2d session on S.727.
Washington, D.C., Government printing office, 1925. 2pts.
- Colorado river basin. Hearing before the Committee on irrigation and
reclamation, House of representatives, 69th congress, 1st session, on
H.R. 6251 and H.R. 9826. Washington, D.C., Government printing
office, 1926. 2v.
- Colorado river closure. W.D.H. Washington. Scientific american.
v.96. p.374-377. May 4, 1907. An account of
the cause of the breach which caused the flooding of the Salton
Sink, and of the methods tried in effecting a closure.
- Colorado river crevasse and Salton sea. H.T. Cory. Railway age.
v.43. p.953-958. June 14, 1907.
An illustrated account principally devoted to the work of closing the
second break. Especially considers the effect on the railway lines of
the Southern Pacific.
- Colorado river crevasse and Salton sea. The great work of control.
Railway age. v.42. p.547-548. November 2, 1906.
A short account of the methods tried for restoring to its natural
bed the Colorado river, which for two years has been flowing into
the Salton basin, and the final success.
- Colorado river development. Colorado river investigations, water storage
and developments, Grand Canyon to the Imperial valley ...
G.W. Malone. Washington, D.C., U.S. Government printing office,
1929. 23lp. U.S. 70th congress. Senate. Document no.186.
- Colorado river development and related problems. C.A. Dykstra.
Annals of the American academy of political and social science.
v.148, part 2. March 1930. 42p.
- Colorado river, Texas. Letter from the secretary of war, transmitting,
with a letter from the chief of engineers, reports of examination and
survey of Colorado river, Texas. U.S. Engineer department. Washington,
D.C., Government printing office, 1908. 29p. U.S. 60th congress,
House. Document no.1211.

Colorado river drainage basin. J.M. Hess. Irrigation age. v.33.
p.41-42, 73-75, 106-109, 142-144, 170-173, 188-191, 204-207. April -
November 1918.

Colorado river problem. W. Kelly. American society of civil engineers.
Transactions. v.88. p.306-437. 1925.

Controlling the Colorado river and Salton sea. Scientific american.
v.95. p.467-469. December 22, 1906.
Illustrations and diagrams showing the situation and present conditions,
describing some of the measures aiming to return the river to its proper
channel.

Delta of the Colorado river and its problems. C.J. Blanchard.
Review of reviews. v.33. p.428-431. April 1906.

Discussion of certain Colorado river problems. G.E.P. Smith.
Arizona. Agricultural experiment station. Bulletin no.100.
Tucson, Ariz., 1925. 143-175p.

Diversion of the Colorado river into the Salton Sink and the efforts made
to restore it to its former channel. J.A. Ockerson.
Journal of the Association of engineering societies. v.38.
p.261-271. June 1907. Illustrated account of this disaster
and the various attempts made to turn the river back to its channel,
and the final success.

Equitable use of the waters of the lower Colorado river and the Rio Grande.
Communication from the President of the United States transmitting in
response to Senate resolution no.181, a report by the secretary of state
submitting certain information regarding the equitable use of the waters
of the lower Colorado river and the Rio Grande. Washington, D.C.,
Government printing office, 1928. 9p. U.S. 70th congress.
Senate. Document no.163.

Fallacy of depletion of the Colorado river. C.C. Tillotson.
Mining journal. v.11. p.5-7. March 30, 1928.
Trend of flow of Colorado river since 1895; taking entire period covered
distinct upward trend of flow is indicated; upper states may be
guaranteed water for all land they expected to irrigate in next 150
years, as they admitted they would have under terms of Santa Fe compact;
Nevada may be assured of all water she can ever use, and California
amount recently claimed as necessary for fulfillment of plans.

Hoover dam: purposes, plan, and progress of construction. W.R. Young.
Scientific american. v.147. p.134-138, 222-223.
September-October 1932.

Hoover dam and its influence on southwest. E. Mead. New reclamation
era. v.22. p.162-165. August 1931. Non technical
outline of project and its economic significance; hazards of early
construction; provision for financing.

- Hoomer dam on Colorado river. Engineer. v.154. p.580-583,
606-609. December 9-16, 1932. Particulars of project.
- Hoover dam project. E. Mead. Civil engineering. v.1.
p.333-335, 421. January, February 1931.
- Imperial valley or Salton Sink region. Message from the President ...
relative to the threatened destruction by the overflow of the Colorado
river in the sink or depression known as the Imperial valley or Salton
Sink region ... Washington, D.C., Government printing office, 1907.
40p. U.S. 59th congress. Senate. Document no.212.
- Irrigation and river control in the Colorado river delta. H.T. Cory.
American society of civil engineers. Transactions. v.76.
p.1204-1571 1913. An illustrated detailed account of the
successful and unsuccessful work in this region in connection with
irrigation and river control.
- Lower Colorado river and the Salton basin. C.E. Grunsky. American society
of civil engineers. Transactions. v.59. p.1-62. 1907.
Information based on official reports upon results of examinations
made of the Colorado river's low-water course; and an account of
the attempt to turn the river back into its proper channel after its
overflow into the Salton basin.
- New inland sea. Arthur P. Davis. National geographic magazine. v.18.
p.36-49. January 1907. Describes the Colorado river and
the irrigation projects for utilizing its waters, especially the
disaster which turned the waters mainly into the Salton sea, and the
desperate attempts to regain control of the river.
- Notes on closing the break in the Colorado river. Engineering news.
v.57. p.210. February 21, 1907. Illustrates phases of
this difficult work, giving explanatory notes. Also editorial comment
and discussion of the disaster and the methods to effect a closure.
- Partial proceedings of Conference of governors, commissioners and advisors
of the states of Arizona, California, Colorado, Nevada, New Mexico,
Utah and Wyoming, on the Colorado river ... Aug. 22 to Sept.1, 1927.
Miami, Ariz., Daily silver belt, 1927. 23p.
- Partial proceedings of Conference of governors, commissioners and advisors
of the states of Arizona, California, Colorado, Nevada, New Mexico,
Utah and Wyoming, on the Colorado river ... Aug. 22 to Sept.1, 1927.
Miami, Ariz., Daily silver belt, 1927. 80p.
- Partial proceedings of Conference of governors, commissioners and advisors of
the states of Arizona, California, Colorado, Nevada, New Mexico, Utah
and Wyoming, on the Colorado river. Second session ... Sept. 19 to
Oct. 4, 1927. Miami, Ariz., Daily silver belt, 1927. 32p.

Plan for protection of Imperial valley, California. Letter from the secretary of the interior transmitting report of Gen. William L. Marshall, consulting engineer of the secretary of the interior, on proposed plan for the protection of lands and property in the Imperial valley, California ... Washington, D.C., Government printing office, 1916. 21p.
U.S. 64th congress. House. Document no.586.

Possibilities of Salton sea. Charles Alma Byers. Popular science magazine. v.70. p.1-18. January 1907.

An illustrated article considering the results that would follow the abandoning of effort to restore the Colorado river to its old channel, and discussing the irrigation projects which led to the disaster.

Power irrigation, beauty. E. McGaffey. National republic. v.21. p.6-7. April 1934.

Problem of the Colorado river. Wm. F. Durand. Mechanical engineering. v.47. p.79-84. February 1925. Removal of flood menace to Imperial valley; need for abundant water supply to Southwest for municipal and irrigation purposes; proposed Boulder cañon dam and reservoir site; hydroelectric-power development.

Problems of Imperial valley and vicinity. Letter from the secretary of the interior transmitting pursuant to law a report by the director of the Reclamation service on problems of Imperial valley and vicinity with respect to irrigation from the Colorado river together with the proceedings of the conference on the construction of the Boulder canyon dam held at San Diego, Calif. U.S. Bureau of reclamation. Washington, D.C., Government printing office, 1922. 326p. U.S. 67th congress. Senate. Document no.142.

Profile surveys in the Colorado river basin in Wyoming, Utah, Colorado and New Mexico, prepared under the direction of W.H. Heron, acting chief hydrographer. Washington, D.C., Government printing office, 1917. 6p. U.S. Geological survey. Water-supply paper no.396.

Protection and development of lower Colorado river basin. Hearings before the Committee on irrigation and reclamation, House of representatives, Sixty-eighth congress, first session, on H.R. 2903 by Mr. Swing, a bill to provide for the protection and development of the lower Colorado river basin ... Washington, D.C., Government printing office, 1924. 8v.

Protection and development of the lower Colorado river basin. Hearings before the Committee on irrigation and reclamation, House of representatives, Seventieth congress, first session, on H.R. 5773, by Mr. Swing, a bill to provide for the protection and development of the lower Colorado river basin ... Washington, D.C., Government printing office, 1928. 542p.

Appendix.

Washington, D.C., Government printing office, 1928. 543-664p.

- Protection and development of lower Colorado river basin. Hearings before the Committee on irrigation of arid lands, House of representatives, 67th congress, 2nd session, on H.R. 11449 by Mr. Swing, a bill to provide for the protection and development of the lower Colorado river basin ... Washington, D.C., Government printing office, 1922. 4v.
- Protection and development of lower Colorado river basin. Information presented to the Committee on irrigation and reclamation in connection with H.R. 2903 by Mr. Swing ... Statements by citizens of Arizona relative to the Colorado river problem, and opinions of the legal questions involved. Washington, D.C., Government printing office, 1924. 152p.
- Regulating the Colorado river. Hearings before the Committee on irrigation and reclamation, House of representatives, 70th congress, 1st session on H.R. 5770, by Mr. Davenport ... January 7, 1928. Washington, D.C., Government printing office, 1928. 52p.
- Report. 1926-1932. Arizona-Colorado river commission. Phoenix, 1927-1933.
- Report based on reconnaissance investigation of Arizona land irrigable from the Colorado river. Phoenix, Ariz., Arizona engineering commission, 1922-23. 72p.
- Report of Colorado river commission of Nevada, including a study of proposed uses of power and water from Boulder dam. January 1, 1927 to September 1, 1935. Issued by Colorado river commission of Nevada, in collaboration with John A. Fulton, director, Mackay school of mines, Robert A. Allen, Nevada state highway engineer, Jay A. Carpenter, professor of mining, Mackay school of mines. Carson City, Nev., State printing office, J. Farnsworth, superintendent, 1935. 179p.
- Report of the American section of the International water commission, United States and Mexico. Message from the President of the United States transmitting report submitted by the American section of the International water commission, United States and Mexico. Washington, D.C., U.S. Government printing office, 1930. 492p. U.S. 71st congress. House. Document no.359.
- Research work of the Bureau of reclamation. E. Mead. Scientific monthly v.36. p.295-307. April 1933.
- River of destiny. Don J. Kinsey; story of the Colorado river. Los Angeles, Department of water and power, 1929. 63p.
- Salton sea, California, Imperial valley, and lower Colorado river. Statement of Mr. F.H. Newell, chief engineer, United States reclamation service and Mr. L.C. Hill, supervising engineer. January 18-19, 1907. Washington, D.C., Government printing office, 1907. 50p.
- Silt in the Colorado river and its relation to irrigation. Samuel Fortier and H.F. Blaney. U.S. Department of agriculture. Technical bulletin no.67. Washington, D.C., 1928 95p.

- Story of Salton sea. Builder. v.93. p.211-213, 237-239.
August 24,31, 1907. An interesting account of the recent outbreak
in the Colorado river on the southern border of California.
- Story of the Hoover dam. New York, Ingersoll-Rand co.; 1932-35. 5v.
- Sword of Damocles no longer hangs over Imperial. A.E. Prugh.
California cultivator. v.83. p.5+ January 4, 1936.
- Ten articles on Hoover dam planning and construction. E. Mead. Engineering
news record. v.109. p.701-728. December 15, 1932. Symposium:
From Colorado river compact to closure of Black Canyon; Bidding and
planning for construction battle; Huge blast turns river into diversion
tunnels; Permanent cofferdams to be large earth-rock fills; Colorado
river board approves design of dam; Review of preliminary construction
operations; Placing 300,000 yards of concrete tunnel lining; Other features
of project well under way; Rapid progress revises construction schedule;
Construction guided by extensive research.
- Truth about Boulder dam. Market growers journal. v.47. p.766-767.
December 15, 1930.
- Upper Colorado river and its utilization. Robert Follansbee. Washington,
D.C., U.S. Government printing office, 1929. 394p. U.S.
Geological survey. Water supply paper no.617.
- Use of waters of the lower Colorado river for irrigation. Letter from the
secretary of the interior, transmitting ... report of the director of
the Geological survey ... Washington, D.C., Government printing office,
1905. 8p. U.S. 58th congress. House. Document no.204.
- Water oracle of Greeley. E.V. Wilcox. Country gentleman. v.85.
p.6-7+ October 9, 1920.
- Water power and flood control of Colorado river below Green river, Utah.
E.C. LaRue. Washington, D.C., Government printing office, 1925.
175p. U.S. Geological survey. Water supply paper no.556.
- What the Hoover dam and Boulder canyon project mean to western agriculture.
C.W. Creel. Extension service review. v.3. p.67-68.
May 1932.
- World's largest irrigation project now being planned by four states of
northwest. R.K. Tiffany. Modern irrigation. v.3. p.16-17,
80-81. September, 1927. Contemplated development of Columbia basin
irrigation project allows reclamation of 1,883,000 acres of virgin
territory.

COLUMBIA BASIN.

- Columbia basin irrigation project. W.D. Vincent. Bankers magazine.
v.117. p.539-543. October 1928.
- Columbia basin project to cost two hundred millions. Engineering news
record. v.94. p.400. March 5, 1925.
- Great Columbia basin reclamation project. Agricultural review. v.15.
p.12. May 1922.
- Irrigation requirements of the arid and semi-arid lands of the Columbia
river basin. Samuel Fortier and A.A. Young. U.S. Department of
agriculture. Technical bulletin no.200. Washington, D.C., 1930.
55p.
- Report against Columbia basin irrigation project. Engineering news record.
v.95. p.502-503. September 24, 1925. Study by Mead and
Edwards based on four previous investigations indicates development not
now warranted.

CONNECTICUT.

- Notes on irrigation in Connecticut and New Jersey. C.S. Phelps and
E.B. Voorhees. U.S. Department of agriculture. Office of experiment
stations. Bulletin no.36. Washington, D.C., 1897. 64p.

DUTCH EAST INDIES.

- Irrigatie ter oostkust van Sumatra. G.A.L. Statius Muller. Waterstaats
ingenieur. v.19. p.305-313. September 1931. Irrigation on
east coast of Sumatra. Survey of natural resources, agriculture and
irrigation conditions; profitability of irrigation works; local water
law; features of irrigation structures; plans for future.
- Irrigation I Hollandsk Indiën. O.W. Serensen. Ingenioren. v.41.
p.23-30. January 16, 1932. Statistical review of irrigation
developments and practice; features of several irrigation structures,
including regulating weirs, siphons, canal drops, etc.; irrigation
of rice lands.
- Een mechanisch rijsbedrijf in Ned.-Indië. J.H. Levert. Ingenieur. v.35.
p.805-806. October 23, 1920. Irrigation of rice fields in Dutch
Indies. Project for construction of embankment 4 ft. high with inexpensive
type of sluice around experimental fields.
- Nachtwadoeks. J. Haringhuizen. Waterstaats-Ingenieur. v.19.
p.335-358, 382, 408-412. October, November, December, 1931.
Night reservoirs. Javanese practice of storing night flow of irrigation
water in small local reservoirs to be used during following day;
engineering features of practice; cost data.
- Rapport sur l'irrigation aux Indes orientales néerlandaises: rapport
preliminaire à la session de wiesbaden. Bruxelles, 1904 - date.

EASTERN STATES.

- East practicing supplemental irrigation. Irrigation age. v.33.
p.135. July 1918.
- Experiences with irrigation on the Delmarvian peninsula. W.C. Pelton.
Market growers journal. v.34. p.242-243. March 15, 1924.
- Irrigation in humid climates. F.H.King. U.S. Department of agriculture.
Farmers' bulletin no.46. Washington, D.C., 1896. 27p.
- Irrigation in humid climates. J.W. Lloyd. Market growers journal.
v.40. p.306-307. March 15, 1927.
- Irrigation in humid climates. J.W. Lloyd. Market growers journal.
v.42. p.168. February 15, 1928.
- Irrigation in the east. E.S. Williams. Country life. v.8
p.440. August 1905.
- Irrigation in the eastern states. Scientific american. v.83. p.274.
November 3, 1900.
- Irrigation in the eastern states. Country life. v.12. p.86.
May 1907.
- Irrigation in the north Atlantic states. Aug. J. Bowie, jr. U.S.
Department of agriculture. Office of experiment station. Bulletin no.167.
Washington, D.C., 1906. 50p.
- Irrigation methods on eastern farms. R. De Baun. Rural New Yorker.
v.87. p.1002. July 28, 1928.
- Irrigation practice in the eastern states. F.E. Staebner. Agricultural
engineering. v.13. p.264. October 1932. Review of spray
irrigation and sub-irrigation practice in eastern United States, with
special reference to Florida; use of spray irrigation for protection
against frost damage.
- Irrigation profitable in the humid parts of the United States. Scientific
american. v.91. p.360. November 19, 1904.
- Possibilities and need of supplemental irrigation in the humid region.
M.B. Williams. U.S. Department of agriculture. Yearbook, 1911.
Washington, D.C., 1912. p.309-320.
- Profits of irrigation in the eastern part of the U.S. Scientific american.
v.88. p.208. March 21, 1903.
- Report on irrigation investigations in humid sections of the United States
in 1903. Edward B. Voorhees and others. U.S. Department of
agriculture. Office of experiment stations. Bulletin no.148.
Washington, D.C., 1904. 45p.

- Supplemental irrigation in the humid regions. Engineering and contracting.
v.38. p.249-251. August 28, 1912.
Abstract from a discussion by Milo B. Williams showing the need of
supplemental irrigation in the growing of the more valuable crops.
- Supplemental irrigation on the Atlantic coast. F.E. Staebner and G.A. Mitchell.
Agricultural engineering. v.11. p.101-104. March 1930.
Surface and sub-irrigation in Florida; spray irrigation for frost protection
in Florida; spray irrigation and sewage irrigation in New Jersey.
- Surface irrigation for eastern farms. F.W. Stanley. U.S. Department of
agriculture. Farmers' bulletin no.899. Washington, D.C., 1917.
35p.
- Surface irrigation in the eastern states. F.E. Staebner. U.S. Department
of agriculture. Farmers' bulletin no.1635. Washington, D.C., 1930.
37p.
- Western irrigation coming east? Market growers journal. v.49.
p.666. November 15, 1931.
- EGYPT.
- Agricultural value of Nile silt held fallacious. E.M. Taylor. Engineering
news record. v.102. p.993-995. June 20, 1929.
- Annual report. 1917 - date. Egypt. Public works department.
Cairo, 1918 - date.
- Annual report. 1884 - date. Egypt. Irrigation department.
Cairo, 1885 - date.
- Archaeology and the Assouan dam. Nature. v.76. p.13.
May 2, 1907.
- Assouan dam. M.E.J. Czarnomska. World's work. v.25. p.332-336.
January 1913.
- Assuan reservoir and Lake Moeris. Sir William Willcocks. Washington, D.C.,
Government printing office, 1914. 26p. U.S. 63d congress.
House. Committee on rivers and harbors. Document no.17.
- Aswân dam scheme; proposed installation of 65,000 kw. Electrician.
v.112. p.786. June 8, 1934.
- Barrage de Sennar, sur le Nil Bleu et l'irrigation de la plaine de Gezire
(Haute-Egypte) Génie civil. v.85. p.500-503.
November 29, 1924.
- Binding of the Nile and the new Soudan. Sidney Peel. London, E. Arnold,
1904. 288p.
- British administration and irrigation in Egypt. S. Peel. Political
science quarterly. v.20. p.513-534. September 1905.

- Claims to certain desert lands in Egypt. Message from the President ...
transmitting a report of the secretary of state forwarding copies of papers
called for in regard to the claims of Cope Whitehouse to certain desert
lands in Egypt. Washington, D.C., Government printing office, 1906.
92p. U.S. 59th congress. Senate. Document no.104.
- Control of the Nile. J.B. Barron. 19th century magazine. v.98.
p.370-380. September 1925.
- Cotton from the Gezira. J. Currie. Agricultural journal of India.
v.18. p.281-286. May 1923.
- Criticism of the Nile projects. Submitted by the Commission of Egyptian
engineers to the Nile projects commission. 1920. Cairo, 1920. 36p.
- De l'équateur à la Méditerranée; le Nil, le Soudan, l'Égypte. A.J. Chélu.
Ouvrage accompagné de nombreuses cartes hors text imprimées en couleurs.
Paris, Chaix, 1891. 507p.
- Delta barrage of lower Egypt. R.H. Brown. Cairo, National printing
department, 1902. 80p.
- Despatch from His Majesty's agent and consul-general at Cairo inclosing a
report as to irrigation projects on the Upper Nile, etc. Sir William
Garstin. London, 1901. 58p.
- Despatch from His Majesty's agent and consul-general at Cairo, inclosing a
report by Sir William Garstin ... upon the basin of the upper Nile ...
London, Printed for H.M. Stationery office, by Harrison and sons, 1904.
243p.
- Despatch from the Earl of Cromer respecting the water supply of Egypt.
Presented to both houses of Parliament by command of His Majesty.
April 1907. London, Printed for H.M. Stationery office, by Harrison
and sons, 1907. 17p.
- Development of the irrigation system of Egypt. W.L. Westernmann. Classical
philology. v.14. p.158-164. April 1919.
- Effect of irrigation upon soil temperature. E.M. Taylor. Egypt.
Ministry of agriculture. Technical and scientific service. Bulletin
no.53. Cairo, 1924. 18p.
- Egypt and the Soudan. Engineering. v.93. p.773-774. June 7, 1912.
Editorial review of Lord Kitchener's last report, especially the part
dealing with irrigation.
- Egypt and the Sudan. M. Macdonald. Engineering. v.134. p.562-563.
November 11, 1932.
- Egypt of to-day. J.W. Jenks. International quarterly. v.6.
p.92-96. September 1902.

- Egyptian irrigation. South-African engineering. v.39. p.33.
February 1928. Assuan dam power scheme being investigated; projected construction of new barrage near Nag Hammadi; barrage permits irrigation of approximately 500,000 acres at all seasons of year.
- Egyptian irrigation. Sir William Willcocks and J.I. Craig. 3d edition.
London, E.& F.N. Spon ltd., 1913. 2v.
- Egyptian irrigation: a study of irrigation methods and administration in Egypt. Clarence T. Johnston. U.S. Department of agriculture, Office of experiment stations. Bulletin no.130. Washington, D.C., 1903. 100p.
- Egyptian irrigation and the Assuan dam. Engineer. v.103.
p.425-426. April 26, 1907. Information contained in a recent despatch from Lord Cromer concerning the benefits this reservoir has conferred on Egypt and matters related.
- Egyptian irrigation and the Assouan dam. Engineering. v.94.
p.833-841. December 20, 1912. An illustrated account of what has been accomplished under British influence, with a review of the early conditions.
- Egyptian irrigation and the public health. Sir William Willcocks.
Cairo, Printed at the Nile mission press, 1927. 13p.
- Egyptian irrigation scheme. Electrical review. v.111. p.921.
December 23, 1932.
- Encore le Canal Abbas II. Solution du problème des irrigations en Egypte. Mémorandum. Séance du 10 février 1912 de la Société khédiviale géographique. Onofrio Abbate. Le Caire, Imprimerie nationale, 1912. 40p.
- Engineering control of the Nile. Builder. v.77. p.363-365; 385-387.
October 21, 28, 1899. Considers the means which have been and are to be adopted for the control of this river.
- Engineering progress in Egypt and the Soudan. Engineer. v.109.
p.507. May 20, 1910. An outline of the progress of public works, based on the report of Sir Eldon Gorst.
- Enlargement of the Aswan dam. Scientific american. v.108.
p.140-141. February 8, 1913.
- Engländer am Nil. Franz Ritter. Zeitschrift des Oesterreichischen ingenieur- und architekten vereines. v.59. p.661-665; 681-684.
September 20, 27, 1907. English on the Nile. A description of the problem of regulating and utilizing the waters of the Nile and the works accomplished and in progress.

Esneh barrage. Engineer. v.107. p.78-80.

January 22, 1909. Photographs, drawings and description of work in Egypt designed to hold up the low floods on the Nile.

Esneh barrage for irrigation in Egypt. Engineering. v.87.

p.173-180. February 5, 1909. Briefly reviews the scheme of irrigation in the Nile valley, giving illustrated description of the barrage across the Nile at Esneh.

Exchange of notes between His Majesty's government in the United Kingdom and the Egyptian government in regard to the use of the waters of the river Nile for irrigation purposes. Cairo, May 7, 1929. London, H.M. Stationery office, 1929. 50p.

Extensive project for irrigating Egypt. Scientific american. v.85. p.227. October 12, 1901.

Extraordinary effect of water erosion caused by the Assouan dam. Scientific american. v.93. p.422. November 25, 1905.

Floating irrigation plant for Egypt. Engineer. v.156. p.118-119. August 4, 1933.

From crocodiles to cotton. E.V. Wilcox. Country gentleman. v.93. p.20-21† October 1928.

Gezira irrigation scheme. Engineer. v.140. p.211-214, 216. August 28, 1925. Particulars of scheme in Sudan, which consists of main canal which draws direct from reservoir formed by Sennar dam, branch canals which draw main canal; distributaries which draw from branches; field channels which draw from distributaries and which give water directly to fields.

Gezira irrigation scheme. Engineering v.127. p.87-91. January 18, 1929. Abstracts of two papers to be presented at Institution of civil engineers, as follows: "The Gezira irrigation scheme: Canalization of the Gezira", by H.V.C. Johnstone, and "Sluices and machinery of the Gezira irrigation scheme: Blue Nile dam and canalization", by J.R. Russell.

Gezira irrigation scheme: canalization of the Gezire. H.V.C. Johnstone. Institution of civil engineers. Minutes of proceedings. v.227. p.68-94. 1929. Paper describes scheme of canalization which is dependent on Sennar dam and its immediate effect; scheme described is canalization of approximately 300,000 feddans of cultivable land; main canal; masonry; cross-drainage works on main canal; works carried out by government; control and distribution of water.

Handbook of instructions for discharge observers in Egypt and the Sudan. Egypt. Public works department. Cairo, Government press, 1929. 25p.

- Harnessing the Nile. Civil engineering (London). v.29. p.93-94.
March 1934. Developments in Egyptian irrigation; Quattara and Lake
Tana projects; investigations and reports; conditions at Lake Tana;
means of regulation.
- Harnessing the Nile. Frederic Courtland Penfield. Century magazine.
v.67. p.483-492. February 1899.
An account of the gigantic engineering undertaking, which will create a
large lake in the desert of Africa, and control it so that the water
may be turned into distant channels at will.
- Harnessing the Nile. Thomas B. Preston. Industrial management. v.61.
p.203-207. March 1, 1921. Eighty-year engineering project
of Nile control commission.
- Harnessing the Nile. H.M. Wright. Scientific american. v.149.
p.258-260. December 1933.
- Heightening the Assouan dam. H.M. Wright. Scientific american. v.150.
p.4-7. January 1934.
- How to save Egypt. Cope Whitehouse. London, Chapman and Hall, ltd.,
1893. 12p.
- Irrigation and crop production. E. McKenzie Taylor. Tropical agriculturist.
v.71. p.352-360. December 1928.
- Irrigation and reclamation of land for agricultural purposes, as now practiced
in India, Egypt, Italy, etc. 1875. Washington, D.C., U.S. Coast and
geodetic survey, 1876. 73p.
- Irrigation development of Egypt. - a huge project. Scientific american
supplement. v.58. p.23983-23984. September 10, 1904.
- L'irrigation en Égypte. J.H.E. Barois. Paris, Imprimerie nationale,
1887. 141p.
- Irrigation in Egypt. Engineering magazine. v.29. p.751-753.
August 1905.
- Irrigation in Egypt. Engineer. v.105. p.399.
April 17, 1908. Brief illustrated descriptions of plants for the
works at Fadlab and Atbara.
- Irrigation in Egypt. Engineer. v.105. p.30.
January 10, 1908. Illustrates and describes the steam pumping plants
which have been built during the last fifteen years for the purpose of
irrigation in Egypt.
- Irrigation in Egypt. In Near east and India. v.34. 1928.
p.654-656.

- Irrigation in Egypt. J.H.E. Barois. Translated from the French by Major A.M. Miller, corps of engineer, U.S. army, 1888. Washington, D.C., Government printing office, 1889. 113p. U.S. 50th congress. House. Miscellaneous document no.134.
- Irrigation in Egypt. Cope Whitehouse. Engineering magazine. v.8. p.820-841. February 1895.
- Irrigation Egypt; the isolated basins transmission system. Electrician. v.113. p.663-664. November 23, 1934.
- Irrigation in Egypt and the Esneh dam. Nature. v.79. p.462-463. February 13, 1909.
- Irrigation in Egypt under British direction. H. Brown. Engineering magazine. v.35. p.429-432. June 1908.
- Irrigation in Egypt under British direction. Sir Hanbury Brown. Journal of the society of arts. v.56. p.415-428. March 13, 1908. A review of what has been done under British direction, exclusive of the basin tracts of upper Egypt and the Sudan. General direction.
- Les irrigations en Egypte. Ch. Audebeau Bey. Société des ingeniers civils de Franco. Mémoires et compte rendu des travaux.. v.76. p.375-420. January - March 1923. Irrigation in Egypt. Discusses geology, soil conditions, the Nile and its action, groundwater levels, present state of irrigation, principal irrigation works, etc.
- Irrigation of Egypt and the success of the Assuan dam. Scientific american. v.99. p.5. July 4, 1908. Editorial on the official report for 1907, and remarks on other irrigation works in progress.
- Irrigation of the Nile valley. Scientific american. v.87. p.182. September 20, 1902.
- Irrigation of the Sudan. Engineering. v.114. p.404-405. September 29, 1922. Details of plan of work, contract for which was awarded to S. Pearson & son, ltd.
- Irrigation pérenne des bassins de la moyenne Egypte. Edmond Béchara. Lausanne, F. Rouge & cie, 1905. 52p.
- Irrigation pérenne et protection contre l'inondation en Egypte. Rapports de la Commission technique sur les reservoirs et note par W.E. Garstin, sous-secrétaire d'état au Ministère des travaux publics. Le Caire, Imprimerie nationale, 1894. 60p.
- Irrigation practice in Egypt. H.W. Molesworth and Th. Yenidunia. Cairo, Survey of Egypt. 1922. 346p.
- Irrigation pumping machinery (Gezira scheme), Sudan. R.W. Allen. Engineering. v.117. p.654-656, 685-687. May 16 - 23, 1924.

- Irrigation schemes in Egypt and the Sudan. Engineer. v.127.
p.497-499, 536, 556-558. May 23 - June 6, 1919.
- Irrigation service, its organization and administration. P.M. Tottenham.
Cairo, Government press, 1927. 89p.
- Irrigation under British engineers. Hanbury Brown. American society
of civil engineers. Transactions. v.54. p.3-32. 1905.
- Irrigation works in India and Egypt. Robert Burton Buckley.
London, E. & F.N. Spon, 1893. 348p.
- Les irrigations du Niger, études et projects. J. Barois.
Académie d'agriculture de France. Comptes rendus. v.8. p.292-299.
February 22, 1922.
- Irrigations en Egypte. J.H.E. Barois. Paris, C. Béranger, 1911.
442p.
- L'irrigazione in Egitto e le dighe sul Nilo. Luigi Luigi. Annali
della Società degli ingegneri e degli architetti Italiani. v.28.
p.263-279. May 16, 1913. Irrigation in Egypt and the Nile river
dams. General notes on Egyptian practice; the Assuan dam and its
anticipated results.
- Isna barrage across the Nile. Scientific american. v.100.
p.189-191. March 6, 1909. Illustrated description of this
important irrigation work in Egypt.
- Die kultivierung Agyptens und des Sudan; der Sennarstaudamm am blauen Nil.
E. Sachs. Verein Deutscher ingenieure. Zeitschrift. v.71.
p.481-483. April 9, 1927.
- Le lac Tana, en Ethiopie, et l'irrigation de l'Egypte et du Soudan.
Génie civil. v.107. p.299-300. September 28, 1935.
- Land reclamation in Egypt. S.A.A. Ashmawy. Electrical review. v.110.
p.521. April 8, 1932.
- Land values in Egypt. Sir Hanbury Brown. Engineer. v.114.
p.456-457. November 1, 1912. Reviews the benefits resulting from
irrigation and the great increase in the value of the land.
- Local irrigation in Egypt: primitive methods that persist to the present
day. A.W. Cutler. Scientific american supplement. v.74.
p.184-185. September 21, 1912.
- Mechanical irrigation stations on the Nile. J.B. Van Brussel.
Engineering magazine. v.36. p.749-764. February 1909.
Illustrates and describes an irrigation scheme carried out at Wadi
Kom-Onbo, in upper Egypt.

- Nag Hamadi barrage. Engineering. v.131. p.16,20-22.
January 2, 1931.
- Nag Hammadi barrage. Engineer. v.144. p.250-254.
September 2, 1927.
- Nag Hammadi barrage. Engineer. v.151. p.122-124, 134, 150-152,
160. January 30 - February 6, 1931.
- Nag Hammadi-staudamn am Nil. D. Busch. Verein Deutscher ingenieure.
Zeitschrift. v.75. p.782-784. June 4, 1931.
- New Egyptian irrigation canal. J.B. Van Brussel. Scientific american.
v.97. p.122-123. August 17, 1907. Illustrated
description of a canal built of riveted steel, and a reinforced concrete
service reservoir, forming a part of the scheme for irrigating 125,000
acres in Egypt.
- New Nile barrage at Isna. Scientific american supplement. v.65.
p.81-82. February 8, 1908.
- Nikla irrigation super-passage. F.B. Jacomb. Engineer. v.112.
p.512-514. November 17, 1911. Illustrated detailed
description of recent works in Egypt, with map and explanation of
conditions.
- Nile control. A statement of the necessity for further control of the Nile
to complete the development of Egypt and develop a certain area in the
Sudan, with particulars of the physical conditions to be considered and
a programme of the engineering works involved. Sir Murdoch MacDonald...
2d edition. Cairo, Government press, 1921. 2v.
- Nile flood of 1913. Sir Hanbury Brown. Engineer. v.116.
p.536-537. November 21, 1913. Explains the serious situations
in Egypt caused by the deficiency of this year's Nile flood, and
reviews the factors affecting basin irrigation.
- Nile irrigation question. C.O. Burge. Engineering record. v.58.
p.65-67. July 18, 1908. Brief account of what has been done
and is proposed in Egypt and the Soudan by means of irrigation.
- Nile projects. Sir William Willcocks. Cairo, Printing office of the
French institute of oriental archaeology, 1919. 184p.
- Nile pumping stations; the Edfu scheme. Electrician. v.113.
p.179. August 10, 1934.
- Nile reservoir dam at Assuân. T.H. Means. Smithsonian institution.
Report, 1902. Washington, D.C., 1903. p.531-535.
- Nile reservoirs. Reports by Sir Colin Scott Moncrieff, Lieut. Colonel J.C.
Ross, Mr. W. Willcocks. Cairo, National printing office, 1891.
71p.

Appendices.

Cairo, National printing office,

1892.

64p.

Note on the irrigation works of Egypt and the improvements to be made to them.
Egypt. Public works department. Cairo, Printed at the Britannia
press, 1884. 18p.

Note on the Nile barrage. Egypt. Public works department. Cairo,
National printing office, 1890. 13p.

Note on the Wadi Raian project. C.C. Scott Moncrieff. Cairo, National
printing office, 1889. 10p.

Note sur la corvée en Égypte. Colonel Scott Moncrieff. 29 janvier 1886.
Le Caire, Imprimerie nationale, 1886. 14p.

Notes on irrigation works; a course of lectures delivered at Oxford under
the auspices of the Common university fund. N.F. Mackenzie.
New York, D. Van Nostrand company, 1910. 111p.

Notes on the Wady Rayan. G.A. Liernur, Col. Western and Col. Sir C.C. Scott
Moncrieff. Cairo, National printing office, 1888. 33p.

Las obras de riego en Egipto. D. José Nicoláu y D. Narciso Puig de la
Bellacasa. Madrid, Est. tipográfico hijos de J.A. García,
1905. 262p.

On cotton. Sir William Willcocks. Lecture delivered at the Egyptian
institute, in Cairo, on December 11th, 1911. Manchester Palmer,
Howe and co., 1912. 15p.

Perennial irrigation and flood protection for Egypt. Reports of the Technical
commission on reservoirs, with a note by W.E. Garstin, under secretary
of state, Public works department. (Translated from the French)
Cairo, National printing office, 1894. 58p.

Plan for full development of the Nile river. C.W. Smith. Engineering
news record. v.98. p.419. March 10, 1927.

Problem of raising an existing dam structure. Scientific american.
v.96. p.466. June 8, 1907.

Progress in control of Nile for irrigation. H.E. Babbitt. Engineering
news record. v.105. p.206-210. August 7, 1930.
Article based on recent visit to Egypt, gives up-to-date information
on second raising of Aswan dam, which will bring storage to 4,000,000
acre-ft., also on Nag Hamadi barrage, in upper Egypt; hydraulic
laboratory at Delta barrage; plans for future.

Progress of irrigation in India, Egypt and the Sudan. International
review of the science and practice of agriculture. v.11.
p.156-158. February 1920.

- Les projects d'irrigation de la Camargue (Bouches-du-Rhone), et le systeme d'irrigations en Egypte. Genie civil. v.90. p.482-485.
May 14, 1927. Irrigation projects in Camargue (Bouches-du-Rhone) and the system of irrigation in Egypt. Deals with possibilities for improvement of soil in Camargue, in fertile, marshy delta of Rhone, 56,000 hectares in area, whereof only 16,000 are cultivated; study of irrigation system in Egypt used as source of information for present plans in Camargue.
- Public works in Egypt. Architect. v.60. p.19-21.
November 11, 1898. Summary of report for 1897, of Sir W.E. Garstin, Under secretary for public works, upon the irrigation department. Briefly reports the increase in the chief crops, and gives information of drainage works and other improvements.
- Race with nature; construction of the Sennar dam, on the Blue Nile. H.J. Shepstone. Scientific american. v.132. p.26-27.
January 1925.
- Raiyan Moeris. Cope Whitehouse. New York, 1889. 52p.
Reprint from journal of the American geographical society. v.21.
p.530-582. 1889.
- Rapport sur le canal Ibrahimieh, présenté à S.E. le Ministre des travaux publics par le Col. C.C. Scott Moncrieff. Le Caire, F. Mourès et cie, 1884. 13p.
- Rapports sur le système d'irrigation dans le Bassé-Egypte et sur le canal Ismaïlieh présentés à S.E. le ministre des travaux publics. Col. C.C. Scott Moncrieff. Le Caire, J. Barbier et cie, 1883. 24p.
- Reclaiming the Sudan desert. A. Clyne. Current history magazine. v.19. p.467-472. December 1923.
- Report on perennial irrigation and flood protection for Egypt. W. Willcocks. Cairo, National printing office, 1894. 313p.
- Report on the administration of the irrigation services in Egypt and in the Sudan. Egypt. Public works department. Cairo, 1885-1911.
- Report on the ministry of public works. Egypt. Public works department. 1912-1915. Cairo, 1914-1916.
- Report of the Nile projects commission. Printed with authority of the Egyptian government. London and Tonbridge, The Whitefriars press, ltd., 1920. 126p.
- Report on the position and activities of the state service of irrigation in the Egyptian government, with special reference to its relations with other government services, and the most promising programme of work for the agricultural development of the country. C.E. Dupuis. June 1923. Cairo, 1925. 122p.

- Report on the soil and water of the Wadi Tumilat lands under reclamation.
A. Lucas. Cairo, National printing department, 1903. 26p.
- Report upon the basin of the upper Nile with proposals for the improvement of that river. Sir William Garstin ... To which is attached, A report upon Lake Tsana and the rivers of the eastern Soudan. C. Dupuis.
Cairo, National printing department, 1904. 196p.
- Reservoirs in the Valley of the Nile. Prepared for the Committee of the Society for the preservation of the monuments of ancient Egypt ...
London, Kenny & co., printers, 1894. 16p.
- Restoration of the ancient irrigation works on the Tigris or The re-creation of Chaldea. Sir William Willcocks. Cairo, National printing department, 1903. 71p.
- River regulation and control in antiquity. Address by Sir William Willcocks ... at National drainage congress, Savannah, Ga., April 24, 1914.
Washington, Government printing office, 1914. 6p. U.S.
63d congress. House. Committee on rivers and harbors. Document no.18.
- Sennar dam and the Gezira irrigation scheme. Engineer. v.138.
p.348-350,352. September 26, 1924.
- Sennar dam on the Blue Nile in Egypt completed. Engineering news record.
v.96. p.316-317. February 25, 1926.
- Sistema de riego del rio nilo en Egypto y Sudan. I.M. Zaki and A. Orive y Alba. Ingenieria. v.2. p.554-556. December 1928.
Irrigation system of Nile river in Egypt and Soudan. Nile is 4000 mi. long, of which 700 mi. lie in Egypt; Blue Nile source is Lake Tsana, in Abyssinia; areas of Egypt are irrigated only in flood season; seasons of cultivation, irrigation, and harvest; Assuan, Isna, Nag-Hammadi, Assiuh, Delta, Zefta and Sennar dams; projected works for improvement of control; Lake Tsana dam will serve as protection against excessive floods and provide storage for dry seasons; data on irrigation methods.
- Sixty years in the East. Sir William Willcocks. Edinburgh and London,
W. Blackwood & sons ltd., 1935. 338p.
- Sluices and machinery of the Gezira irrigation scheme; Blue Nile dam and canalization. J.R. Russell. Institution of civil engineers.
Minutes of proceedings. v.227. p.95-128. 1928.
Sluices consist of gates built up of mild steel plates and rolled joists working in cast-iron frames built to masonry; water pressure is transmitted from gates to frames and piers through mild-steel free rollers; main sluices are operated by two gasoline-driven machines which travel on tracts laid on parapets of dam.

- Special repairs to the barrage. Sir W.W. Garstin. Indian engineering.
v.23. p.236-238. April 9, 1898. From the
administration report of the irrigation department, Egypt. Particulars
regarding the operation of stock-ranming and cement-grouting as
carried out on the Nile barrages.
- Strategic Sudan. Living age. v.321. p.1223-1229.
June 28, 1924.
- Struggle for the Nile. W.E. Smythe. Review of reviews. v.62.
p.607-617. December 1920.
- Subduing the Nile. C. Roberts. World's work. v.5.
p.2861-2870. December 1902.
- Sudd region of the Nile. H.E. Hurst. Engineer. v.155.
p.586. June 9, 1933.
- Sudd region of the White Nile and the harnessing of its waters. Sir William
Willcocks and Mr. John Wells. Cairo, Printing-office of the French
institute of oriental archaeology, 1918. 30p.
- Sudd reservoir; or, nature's provision of perennial irrigation and flood
protection for the whole of the Nile valley. Sir William Willcocks.
Cairo, Printing-office of the French institute of archaeology, 1919.
28p.
- Sun-power to irrigate the Nile valley. A.S. Joyce. Technical world.
v.17. p.80-84. March 1912.
- Taming the river Nile. H.C. Hardy. Scientific american. v.123.
p.524. November 20, 1920.
- Les terres du nord du delta egyptien. C. Audebeau Bey. Société des
ingénieurs civils de France. Mémoires et compte rendu des travaux.
Bulletin no.78. p.777-834. November 1925.
- That the desert may bloom; improved flood control and irrigation methods
along the river Nile. G.H. Dempster. Christian science monitor
magazine. p.4+ July 31, 1935.
- Utilization of the Nile. Engineer. v.88. p.439-441.
November 3, 1899. An illustrated description of the finally
sanctioned design of the dam at Assouan and the barrage at Assiout.
- Utilization of the Nile. Engineering record. v.40. p.717.
December 30, 1899. Illustrated description of the barrages at
Assouan and Assiout, designed to pass great volumes of water through
sluices if necessary. Also describes a system of cast-iron sheet piling.
- Value of the Nile barrages to Egypt. Scientific american. v.96.
p.307. April 13, 1907.

EUROPE.

"Guelle"-gazdalwodas. B. Kenessey. Vizuegyi Koezlemenyek. v.17.
p.151-153. January - March 1935. "Goelle" - farming in high
mountains of Switzerland, Austria and Bohemia, where no cereals are
produced, and consequently there is no litter straw; meadows and pasture
grounds are manured by irrigation with excreta of cattle diluted in water.

Inspection notes on certain irrigation and armoured concrete works in Europe.
A.R. de Chazal. Madras, 1906. 19p.

Irrigation in southern Europe: being the report of a tour of inspection of the
irrigation works of France, Spain, and Italy, undertaken in 1867-68
for the government of India. C.C. Scott Moncrieff. London, E.& F.N.
Spon, 1868. 371p.

FEDERATED MALAY STATES.

Annual report. 1933 - date. Federated Malay states. Drainage and irrigation
department. Kuala Lumpur, 1934 - date.

Irrigation of riverine areas; Bota-Lambor Kanan pumping scheme, Perak river.
A.G. Robinson. Malayan agricultural journal. v.24.
p.524-528. November 1936.

Sungei Manik irrigation scheme. G.A. de C. de Moubray. Malayan
agricultural journal. v.24. p.160-166. April 1936.

FLORIDA.

Irrigation in Florida. F.W. Stanley. U.S. Department of agriculture.
Department bulletin no.462. Washington, D.C., 1917. 62p.

Irrigation practices. A.O. Kay. Florida. University. Agricultural
extension division. Bulletin no.24. Gainesville, Fla., 1920.
45-48p.

Supplemental irrigation on the Atlantic coast. F.E. Staebner and G.A. Mitchell.
Agricultural engineering. v.11. p.101-104. March 1930.

FORMOSA.

Irrigation works in Formosa being built by Japan. Engineering news.
v.89. p.75-76. July 13, 1922.

FRANCE.

L'agriculture, les prairies et les irrigations de la Haute-Vienne. J.A. Barral.
Paris, Imprimerie nationale, 1884. 771p.

Les améliorations agricoles et l'aménagement des eaux. Ch. Grad.
Strasbourg, Typ. de G. Fischbach, 1885. 165p.

- Bewässerungen in den departements Bouches du Rhône und Vaucluse (Süd-Frankreich).
Eduard Markus. Wien, W. Frick, 1886. 314p.
- Le Canal d'irrigation dérivé de l'Hérault et les projets de canaux dérivé du
Rhône. Francis Marre. Génie civil. v.51. p.376-379.
October 5, 1907. Irrigation canal from the Hérault and the projects
for canals from the Rhône. An account of irrigation projects in the
wine districts of southern France.
- Canaux d'arrosage de l'Italie septentrionale dans leurs rapports avec ceux du
Midi de la France. Traité théorique et pratique des irrigations
embisagées sous les divers points de vue de la production agricole, de la
science hydraulique et de la législation. Benjamin Nadauld de Buffon.
Paris, Carilian-Goeury et V. Dalmont, 1843-44 3v.
- Congrès de l'eau en Crau. Utilisation des nappes d'eau souterraines. Marseille,
1930. Sous le haut patronage du M. Fernand David ... sous la présidence
d'honneur de M. Carrier ... et sous la présidence de M. Troté. Comptes
rendus des séances tenues à la préfecture de Marseille (Salle du Conseil
général) et aux salons massilia et excursion des congressistes en Crau
les 29, 30 juin et 1er juillet. Paris, Service agricole de la
compagnie P.L.M., 1930. 346p.
- La Crau. H. Hitier. Journal d'agriculture pratique. v.56.
p.334-335. October 24, 1931.
- Étude sur les irrigations de la prairie de la Joncherie (Vosges). Max Le
Gouppey de la Forest. Annales. Institut national agronomique.
no.15, 1892-96. Paris, 1898. p.427-460.
- Excursion agronomique en Auvergne, principalement aux environs des Monts-Dor
et du Puy-de-Dôme, suivie de recherches sur l'état et l'importance des
irrigations en France. J.A. Victor Yvart. Paris, De l'Imprimerie
royale, 1819. 218p.
- Expériences sur l'irrigation souterraine effectuées à Avignon en 1929.
Bordas and Mathieu. Académie d'agriculture de France. Comptes
rendus. v.16 p.115-119. January 22, 1930.
- Irrigation and hydraulic motors used in irrigation in France. Paul Levy
Salvador. American society of civil engineers. Transactions.
v.54. p.111-128. 1905.
- L'irrigation dans les plaines d'alluvions. F. Diénert. Académie d'
agriculture de France. Comptes rendus. v.7. p.729-736.
November 9, 1921.
- Irrigation in southern Europe: being the report of a tour of inspection of the
irrigation works of France, Spain, and Italy, undertaken in 1867-68 for
the government of India. C.C. Scott Moncrieff. London, E. & F.N.
Spon, 1868. 371p.

Irrigations dans le Département de Vaucluse. Rapport sur le concours ouvert en 1876 pour le meilleur emploi des eaux d'irrigation. J.A. Barral. Paris, Imprimerie nationale, 1877. 595p.

Rapport sur le concours ouvert en 1877 pour le meilleur emploi des eaux d'irrigation. J.A. Barral, Paris, Imprimerie nationale, 1878. 582p.

Irrigations dans le Département des Bouches-du-Rhône. Rapport sur le concours ouvert en 1875 pour le meilleur emploi des eaux d'irrigation. J.A. Barral. Paris, Imprimerie nationale, 1876. 2v.

Méthodes culturales employées par les immigrants italiens dans le sud-ouest. M. Paon. Académie d'agriculture de France. Comptes rendus. v.13. p.522-527. May 4, 1927.

Notes agricoles sur la vallée de Luz. Contribution à l'étude de l'irrigation dans les terrains primitifs et de transition. L. Faure. Annales. Institut national d'agronomie. no.13, 1888/89 - 1890/91. Paris, 1894. p.117-213.

Notes de statistique et d'administration pratique concernant les Marais, les petits cours d'eau, les établissements à former sur les ruisseaux. Leonce de Lamothe. Bordeaux, Impr. de T. Lafargue, 1843. 90p.

Notice sur les services de l'hydraulique et des améliorations agricoles. Paris, Imprimerie nationale, 1906. 14p.

Les projets d'irrigation de la Camargue (Bouches-du-Rhône), et le système d'irrigations en Egypt. Génie civil. v.90. p.482-485. May 14, 1927.

Des quantités d'eau et de la fréquence des arrosages suivant les propriétés des terres. M.A. Müntz and M.E. Lainé. Paris, Imprimerie nationale, 1913. 132p.

Rapport fait (au cours de la précédente législature) au nom de la Commission de l'agriculture, sur la proposition de loi de M. Francois Fournier tendant à faire procéder aux études nécessaires pour établir les canaux d'irrigation dérivés du Rhône ou de ses affluents. M. Francois Fournier. Repris le 1er décembre 1910 (2e séance) et renvoyé à la commission de l'agriculture par application de l'article 18 du Règlement. Paris, Impr. de la Chambre des députés, 1910. 75p.

Rapport fait au nom de la Commission de l'agriculture chargée d'examiner le projet de loi portant déclaration d'utilité publique de l'établissement en Durance, d'usines hydrauliques, en vue des irrigations des basses plaines de la rive droite du Rhône et du fonctionnement des entreprises d'hydraulique agricole de la région méditerranéenne. M. Francois Fournier. Paris, Impr. de la Chambre des députés, 1912. 78p.

Rapport sur le concours ouvert en 1876 pour le meilleur emploi des eaux d'irrigation. J.A. Barral. Paris, Imprimerie nationale, 1876. 271p.

Le rôle de l'ingénieur dans la mise en valeur de la France d'Outre-mer. A. Jacobson. Génie civil. v.108. p.57-58. January 18, 1936.

Utilisation agricole des eaux. Contribution a l'étude des prairies irriguées dans les vosges. R. Olry. Annales. Institut national d'agronomie. series 2, v.4. Paris, 1905. p.437-479.

Utilisation agricole des eaux. Contribution a l'étude des prairies irriguées dans les vosges. R. Olry. Annales. Institut national d'agronomie. series 2, v.5. Paris, 1906. p.233-282.

GERMANY.

Bedeutung von technik und bodenkunde für die deutsche wasserwirtschaft. O. Schoenefeldt and F. Alten. Angewandte chemie. v.48. p.101-110. February 9, 1935.

Bericht über die vom K.K. Ackerbau-ministerium einberufene expertise betreffend die landwirtschaftliche verwertung der wien abfalbwässer. Austria, K.K. Ackerbauministerium. Wien, 1895. 76p.

Bewässerungswirtschaft im lichte der landwirtschaftlichen betriebslehre unter besonderer berücksichtigung der deutschen verhältnisse. Hans Zörner. Landwirtschaftliche jahrbucher. v.57. p.605-665. 1922.

Erläuterung zu dem generellen projekt zur bewässerung der landkreise der gemeinde Pfalzdorf mit aufzupumpendem Rheinwasser. Witzell. Landwirtschaftliche jahrbucher. v.11. p.525-586. 1882.

Irrigations, drainages, assainissements et autres améliorations foncières en Allemagne et dans quelques pays de l'Europe centrale. L. Faure. Annales. Institut national d'agronomie. no.15, 1892-96. Paris, 1898. p.175-426.

Landesmeliorationen der Rheinprovinz. Ein Überblick über die rheinische wasserwirtschaft mit technischen, gesetzlichen und wirtschaftlichen erläuterungen. August Heimerle. Landwirtschaftliche jahrbucher. v.48. p.171-277. 1915.

Meliorationsväsendet i Preussen. S. Aspegren. Stockholm, Aftonbladets aktiebolags tryckeri, 1905. 35p. Meddelanden från Kungl. Landbruksstyrelsen. no.107.

Möglichkeit der ackerbewässerung in Deutschland. Bericht über die verhandlungen des Ausschusses der Landes-kultur-abteilung am 19 februar 1904 und der Landeskultur-abteilung am 10 juni 1904. Hrsg. vom Ausschuss der Landeskultur - abteilung. Berlin, Deutsche landwirtschaftsgesellschaft, 1904. 75p. Arbeiten der Deutschen landwirtschafts - gesellschaft. hft. 97.

Versuche auf bewässerungswiesen im genossenschaftsgebiet Bruchhausen - Syke - Thedinghausen (Provinz Hannover) in den jahren 1901 bis 1912, ausgeführt in gemeinschaft mit dem Kgl. meliorationsbauamt in Hannover von der Moor-versuchs-station in Bremen. Bruno Tacke. Berlin, P. Parcy, 1918. 150p. Arbeiten der Deutschen landwirtschafts-gesellschaft. hft. 291. Experiments on irrigation in the Bruchhausen, Syke, and Thedinghausen association district, province of Hanover, 1901-1912.

GREAT BRITAIN.

Annual report. Straits settlement. Drainage and irrigation department. 1932-1935. Singapore, 1933-1936.

Irrigation. Benaiah W. Adkins. In his Land drainage in Britain. 1933. p.300-312.

Irrigation and crops; review of irrigation in the Empire. B.A. Keen. Nature. v.120. p.15-17. July 2, 1927.

Irrigation in the empire. B.A. Keen. London, Empire marketing board, 1927. 8p.

Irrigation works in Cyprus. Engineer. v.84. p.516. November 26, 1897. Discussion of the work about to be undertaken to store up the supply of water for irrigation of the plains during the dry season.

National irrigation, or the various methods of watering meadows; affording means to increase the population, wealth, and revenue of the kingdom, by an agricultural, commercial, and general economy in the use of water. William Tathan. London, Printed for J. and T. Carpenter, 1801. 427p.

Report on irrigation, water supplies for stock, water law, etc. A.D. Lewis. December 1925. Published by the crown agents for the colonies. London, Waterlow and sons, limited, 1926. 99p.

Report on the results obtained at the government experiment station for the investigation of problems connected with the irrigation of sugar cane at Medine, Mauritius, 1921-26. H.A. Tempany. Mauritius. Department of agriculture. General series. v.36. 58p. 1926.

When water-meadows score. G.H. Read. Farmer and stock-breeder. v.49. p.782. April 8, 1935.

GREAT PLAINS.

Irrigation needs and possibilities of the Great Plains. Engineering news. v.95. p.631. October 15, 1925.

Irrigation of the Great Plains. A.L. Fellows. Engineering news. v.98. p.818-819. May 19, 1927.

Irrigation on the great plains. Frederick H. Newell. U.S. Department of agriculture. Yearbook, 1896. Washington, D.C., 1897. p.167-196.

Irrigation policies and programs in the northern great plains region. S.E. Johnson. Journal of farm economics. v.18. p.543-555. August 1936.

Relations between crop yields and precipitation in the great plains area; crop rotations and tillage methods. E.C. Chilcott. U.S. Department of agriculture. Miscellaneous circular no.81. Washington, D.C., 1931. 163p.

Watering the great plains; effective conservation of groundwater. G.S. Knapp. Engineering news record. v.116. p.664-665. May 7, 1936.

GREECE.

Irrigation in Saloniki plain. A. Adrianopoulos. Texnika xponika, v.8. p.741-749. September 15, 1935. General discussion of program for irrigation of plain of Saloniki. Written in Greek, with a brief abstract in French.

Reclaiming Macedonia's plains. W.P. Christie. Constructor. v.13. p.24-26. October 1931. Outline of Greek government's \$23,000,000 drainage, flood control and irrigation project underway in Macedonia; features of american and european excavating and earth-handling equipment.

Reclamation of the Salonika plain. Near east. v.29. p.22. January 7, 1926.

Les travaux d'améliorations agricoles en Grèce. B. Gasossis. Journal d'agriculture pratique. v.64. p.184-185. August 31, 1935.

HAWAIIAN ISLANDS.

Culture of sugar cane. Report on water supply for irrigation on the Honouliuli and Kahuku ranchos, Island of Oahu, Haeaiian islands. James D. Schuyler and G.F. Allardt. Oakland, Cal., U.S.A., Jordan and Arnold, printers, 1889. 32p.

Hawaii, its natural resources and opportunities for home-making. F.H. Newell. Washington, D.C., Government printing office, 1909. 51p. U.S. 60th congress. Senate. Document no.668.

Hearings before the Committee on the territories, of the House of Representative on H.R. 11628, authorizing John T. McCrosson and associates to construct an irrigation ditch on the Island of Hawaii, territory of Hawaii, December 8, 9, and 13, 1911. Washington, D.C., Government printing office, 1911. 48p.

- Insular irrigation: Hawaii finds it necessary to control her water supply.
A.L. Dahl. Scientific american v.130. p.322. May 1924.
- Irrigating the sugar plantations of Hawaii. Scientific american. v.83.
p.99. August 18, 1900.
- Irrigation experiments of 1905. C.F. Eckart. Honolulu, H.T., 1905.
17p. Report of work of the Experiment station of the Hawaiian sugar
planters' association. Division of agriculture and chemistry. Bulletin
no.14.
- Irrigation in Hawaii. Walter Maxwell. U.S. Department of agriculture.
Office of experiment stations. Bulletin no.90. Washington, D.C.,
1900. 48p.
- Irrigation in Hawaii. George B. Sturgeon. California journal of
technology. v.12. p.9-18. November 1908.
Describes the conditions and the irrigation works for the production of
sugar-cane.
- Irrigation in the Hawaiian canefields. International sugar journal..
v.25. p.180-184. April 1923.
- Irrigation in the Hawaiian islands. W.W. Thayer. Scientific american.
v.84. p.20. January 12, 1901.
- Irrigation in the Hawaiian islands. M.M. O'Shaughnessy. American
society of civil engineers. Transactions. v.54. p.129-137.
1905.
- Irrigation of sugar cane. Planter. v.78. p.241.
March 26, 1927.
- Irrigation of sugar cane in Hawaii. W.P. Alexander. Honolulu,
Hawaiian sugar planters' association, 1923. 109p.
- Irrigation works in the Hawaiian islands. M.M. O'Shaughnessy. Engineering
news. v.61. p.399-403. April 15, 1909.
An illustrated account of the extensive development of irrigation projects
to furnish water for the sugar cane lands.
- Irrigations aux États-Unis d'Amérique et aux îles Hawaï: rapport. O.P. Austin.
Bruxelles; Impr. V.A. Mertens et fils, 1905. 13p.
- Notes on the irrigation of sugar cane. H.F. Hungerford. Planter.
v.75. p.109. August 8, 1925.
- Precast concrete flumes and ditches conserve soil and water; irrigation system
of large sugar plantation in Hawaii. Concrete. v.44. p.84.
September 1936.
- Rational distribution of irrigation water as practiced on Ewa plantation.
W.P. Alexander. Honolulu, Printed by Honolulu star-bulletin,
1928. 46p.

Scientific study of irrigation in Hawaii. International sugar journal.
v.28. p.636-642. December 1926.

Statement submitted to the U.S. Senate committee on Pacific islands and Porto Rico, on behalf of Bernice P. Bishop estate and the Bernice P. Bishop museum of Honolulu, territory of Hawaii, by Arthur S. Tuttle, setting forth their objections to the passage of the H.R. bill no.11, 997 and of the amendment thereto proposed by Senator Mitchell, granting to the Hawaii ditch company, ltd., a franchise to construct ditches and develop water on the public lands of Hawaii, the interests represented being threatened thereby with serious damage, accompanied by exhibits A,B,C, and D in substantiation of the claims herein made. January 1903.
New York, Evening post job printing house, 1903. 57p.

Water supply in Hawaii. A.L. Dahl. Sugar. v.26.
p.513. October 1924.

HUNGARY.

Brochure. Hungary. Direction national du service des eaux en Hongroie.
Budapest, 1900. 5v.

Irrigation de la basse plaine hongroise; a magyar alföld öntözése.
Udo de Ruttkay. Budapest, 1932. 21p.

Über die rivalitat der boden- und luftklimatischen faktoren bei der bodentypenbildung, beitrage sur frage der bewasserung der ungarischen tiefebene. Emil Scherf. Budapestini, Editio instituti reg.
hungarici geologici, 1930. 87p.

IDAHO.

Annual report and financial statement of chief engineer and general superintendent Imperial irrigation district, Cal. 1917-1930.
Imperial, Cal., 1928-1931.

Annual report of the state land department of the state of Idaho; Carey act lands. 1st - 6th. 1907 -1912. Boise, 1908 - 1912.

Arid lands made fruitful by work of Bureau of reclamation. P.M. Sheriger.
Air magazine. v.36. p.3394-3398. February 1931.

Beneficial use to stop big water waste. Irrigation age. v.31.
p.58-59. February 1916.

Biennial report. Idaho state engineer. 1st - 11th. 1895 - 1916.
Boise, 1896 - 1917.

Big Lost river irrigation project. Irrigation age. v.31.
p.131. July 1916.

Black canyon diversion dam, Boise project, Idaho, I.E. Houk.
Engineering and contracting. v.68. p.13-15. January 1929.

- Building Black Canyon irrigation dam in western Idaho. W. Ward. Engineering news. v.93. p.818-823. November 20, 1924.
- Canal that grows crops in a barren country; King Hill irrigation project in the Snake river valley. Scientific american. v.129. p.33. July 1923.
- Deep wells and pumps for drainage and supplemental irrigation. E.H. Neal. Agricultural engineering. v.11. p.333-334. October 1930.
- Development of the Columbia river and its tributaries. Hearings before the Committee on irrigation and reclamation, 72d congress, 2d session on S.2670 ... and S.4408 ... September 6 and 7, 1932. Washington, D.C., 1933. 159p.
- Drainage of irrigated lands on the Minidoka project, Idaho. Percival M. Fogg. Journal of the Idaho society of engineers. v.2 p.106-117. June 1912. Explains this drainage problem, as it has developed and is being solved.
- Drainage system for the north side Minidoka irrigation project. Engineering record. v.69. p.468-469. April 25, 1914. From a paper read by F.N. Cronholm before the Idaho society of engineers. Discusses remedial measures for a problem in irrigation work.
- Economic limits of cost of water for irrigation; Twin Falls canal company, Idaho. R.P. Teele and Paul A. Ewing. Preliminary report. Washington, D.C., 1925. 34p. mimeographed.
- Economic study of irrigated farming in Twin Falls county, Idaho. B. Hunter and S.D. Nuckols. U.S. Department of agriculture. Department bulletin no.1421. Washington, D.C., 1926. 74p.
- Economic survey of agriculture of the Minidoka area, and recommendations adopted at the economic conference held February 22 to 24, 1927, at Burley, Idaho. Prepared by J.W. Barder and John T. Montgomery. Moscow, Idaho, University of Idaho, College of agriculture, Extension department, 1927. 55p mimeographed.
- Experiments on the economical use of irrigation water in Idaho. D.H. Bark. U.S. Department of agriculture. Department bulletin no.339. Washington, D.C., 1916. 57p.
- Gen, Idaho, irrigation district. Carl George de Laval. Western engineering. v.4. p.41-50. January 1914. Illustrated description of this recently completed project on the Snake river.
- Geology and water resources of the Snake river plains of Idaho. I.C. Russell. Washington, D.C., Government printing office, 1902. 192p. U.S. Geological survey. Bulletin no.199.

Government aid in support of the Payette-Boise irrigation project. Letter from the secretary of the interior, transmitting, in response to the resolution of the Senate of March 31, 1904, a copy of the proceedings of the Committee on organization of the landowners of the Boise and Payette valleys, Idaho ... Washington, D.C., Government printing office, 1904. 56p. U.S. 58th congress. Senate. Document no.247.

Gravity extension division, Minidoka project. Idaho. E.B. Darlington. Western construction news. v.5. p.161-163. March 25, 1930. Main features of reclamation plan to supply Snake river water to 80,000 acres of irrigable land.

Ground water for irrigation on Camas Prairie, Camas and Elmore counties, Idaho. A.M. Piper. Idaho. Bureau of mines and geology. Pamphlet no.15. Moscow, University of Idaho, 1926? 46p. Deals with geography, physiography and geology of district; surface-water resources; irrigation problems; well-drilling technique.

Growing irrigated grain in southern Idaho. U.S. Department of agriculture. Farmers' bulletin no.1103. Washington, D.C., 1920. 28p.

Idaho and the Green snake. W.V. Woehlke. Sunset magazine. v.32. p.763-773. April 1914.

Idaho irrigation congress seeks to inject more improved methods into that science in state. Irrigation age. v.32. p.61. February 1917.

Information concerning the Owyhee irrigation project, Oregon - Idaho. Washington, D.C., Government printing office, 1928. 14p.

Iowa farms Idaho. Technical world. v.21. p.236-238. April 1914.

Irrigation from Snake river, Idaho. H.G. Raschbacher. U.S. Department of agriculture. Office of experiment stations. Circular no.65. Washington, D.C., 1906. 16p.

Irrigation in Idaho. Scientific american. v.83. p.149. September 8, 1900. Brief review of the work that has been done, with illustrations.

Irrigation in Idaho. W. Fawcett. Scientific american. v.83. p.149. September 8, 1900.

Irrigation in Idaho. James Stephenson, jr. U.S. Department of agriculture. Office of experiment stations. Bulletin no.216. Washington, D.C., 1909. 59p.

Irrigation in the Valley of Lost river, Idaho. Albert Eugene Wright. U.S. Department of agriculture. Office of experiment stations. Circular no.58. Washington, D.C., 1904. 24p.

- Irrigation investigations in cooperation with Department of agriculture,
Washington, D.C. Elias Nelson. Idaho. Agricultural experiment
station. Bulletin no.58. Moscow, Idaho, 1907. 46p.
- Irrigation of agricultural lands. Idaho statistics for state and counties.
U.S. Bureau of the census. Washington, D.C., Government printing
office, 1931. 13p.
- Land and irrigation laws of the state of Idaho, 1911. n.p., State board
of land commissioners, 1912. 192p.
- Laws of the state of Idaho relative to public waters, water rights and
irrigation. Comp. by A.C. Hindman. 1915. Published by direction
of the Idaho irrigation and drainage code commission. Boise,
Capital news job rooms, 1916. 303p.
- Minidoka irrigation project, U.S. Reclamation service C.J. Blanchard.
Engineering record. v.55. p.244-246. March 2, 1907.
Illustrated description of the dam and distributing system of this
reclamation work in Idaho.
- Minidoka project of reclamation in Idaho. Outlook. v.93.
p.137. September 25, 1909.
- Notes on the irrigation laws of Idaho and government regulations relating
to rights of way over public lands. Weir tables and instructions to
irrigators. Rexburg, Idaho, Current journal print, 1903. 67p.
- Owyhee project. Engineering and contracting. v.65. p.250.
November 1926.
- Payette-Boise irrigation project, Idaho. Information compiled by United
States reclamation service, January 1, 1910. n.p., 1910 32p.
- Payette-Boise irrigation project in Idaho. Scientific american
supplement. v.59. p.24483-24484. April 15, 1905.
- Perrine's big work in Idaho. Irrigation age. v.33. p.14-15.
March 1918.
- Portneuf-Marsh valley irrigation project in south-eastern Idaho.
Engineering record. v.66. p.181-182. August 17, 1912.
Illustrates and describes the construction of an earth dam with a clay
cut-off wall and a drain trench.
- Private irrigation projects, Carey act. Hearings before the Committee on
irrigation and reclamation of arid lands, United States senate ... on
private irrigation projects, Carey act. January 15, 1912. Washington,
D.C., Government printing office, 1912. 34p.
- Proceedings of the joint conference of the irrigation, engineering and
agricultural societies of Idaho. 1st - 2d. 1918-1919.
Twin Falls, 1919.

Profile surveys in Snake river basin, Idaho, prepared under the direction of R.B. Marshall, chief geographer. Washington, D.C., Government printing office, 1914. 12p. U.S. Geological survey. Water supply paper no.347.

Pumping from open drains on Minidoka project. G.H. Hogue. Idaho engineer. v.6. p.11, 32. December 1928. Account of drainage and water-supply problem facing Idaho irrigation project; survey of wet areas; construction of project.

Pumping seepage water from wells for irrigation. E.H. Neal. Engineering news record. v.104. p.1020. June 19, 1930.

Reinforced-concrete chutes on Boise project. F.W. Hanna. Engineering record. v.67. p.500-501. May 3, 1913. Describes the design, construction and operation of five of the larger of the open chutes.

Seepage water, formerly wasted, now pumped for irrigation. J. Hornbein. Engineering news record. v.78. p.192-193. April 26, 1917.

Sheep industry on the Minidoka reclamation project. E.F. Rinehart. U.S. Department of agriculture. Department bulletin no.573. Washington, D.C., 1917. 28p.

Snake river and tributaries. Letter from the secretary of war transmitting pursuant to section 1 of the River and harbor act approved January 21, 1927, a letter from the chief of engineers, U.S. army, dated December 15, 1933, submitting a report, together with accompanying papers and illustrations, on Snake river and tributaries, for the purposes of navigation and efficient development of its water power, the control of floods, and the needs of irrigation... Washington, D.C., Government printing office, 1934. 135p. U.S. 73d congress. House. Document no.190.

Southern Idaho, an engineers' creation. W. DeBerard. Engineering news. v.69. p.473-475. September 21, 1922.

Southern Idaho - the north side project. G.H. Nichols. Hoard's dairyman. v.51. p.865. June 23, 1916

State of Idaho, the Carey act; a compilation of the federal and state laws and the rules and regulation pertaining to the entry of land under provisions of the Carey act in the state of Idaho. Published by the State board of land commissioners. Fayette, Id., Independent printing co., 1912. 79p.

Twin Falls - Oakley irrigation project. A.M. Korsmo. Engineering news. v.69. p.516-521. March 13, 1913. Illustrated description of the Carey act irrigation project in southern Idaho, especially the construction of the main dam.

Water utilization in the Snake river basin. W.G. Hoyt. Washington, D.C., U.S. Government printing office, 1935. 379p. U.S. Geological survey. Water supply paper no.657.

Watering Idaho's desert. J.F. Springer. Scientific american. v.122.
p.520. May 8, 1920.

When reclamation was new; Milner dam. K. Provost. Explosives engineer.
v.10. p.192-193. June 1932.

INDIA.

Active development of irrigation works in India. Engineering news record.
v.103. p.107. July 18, 1929.

Administration report. India. Central provinces and Berar. Public works
department. Irrigation branch. 1902/03 - date. Nagpur, 1903 - date.

Administration report. India. Madras presidency. Public works department.
Irrigation branch. 1897/98 - date. Madras, 1899 - date.

Administration report. India. North-west frontier province. Irrigation
branch. 1917-19. Peshawar, India. 1919.

Administration report. Punjab. Public works department. Irrigation
department. 1899/1900 - date. Lahore, 1900 - date.

Administration report. part 2. Irrigation works. Accounts and statistical
statements. India. Bombay presidency. Public works department.
1902/03 - date. Bombay, 1904 - date.

Administration report, statistical statements and accounts. India. North-
west frontier province. Public works department. Irrigation branch.
1899/1900 - date. Lahore, 1900 - date.

Administration report of the director. Ceylon. Department of irrigation.
1932 - date. Colombo, 1933 - date.

Agricultural development of the canal tracts of the Bombay Deccan. T.F. Main.
Agricultural journal of India. v.21. p.343-346.
September 1926.

Agricultural and irrigation: a problem of economic development. S.K. Gurtu.
Agricultural journal of India. v.14. p.541-548. July 1919.

Agriculture in Sind under the Barrage canals system. T.F. Main. Bombay.
Department of agriculture. Bulletin no.159. Poona, 1929. 72p.

Amritsar hydro-electric irrigation installation. S. Leggett. Engineering
and industrial management. v.5. p.349. March 24, 1921.

Annual irrigation revenue report. India. Bengal. Public works department.
Irrigation branch. 1892/93 - date. Calcutta, 1893 - date.

Annual irrigation revenue report. India. Sind. Public works department.
1916-1917. Hyderabad, India. 1918.

Annual report (technical) of the work of the Central board of irrigation,
India. 1934/35 - date. Simla, 1936 - date.

Ashti tank. Bombay presidency. Public works department. Bombay, Printed
at the government central press, 1877. 23p.

Battle of the Damoodar. G.C. Chatterjee. Calcutta, 1930. 11p.

Canal irrigation in the Punjab; an economic inquiry relating to certain aspects
of the development of canal irrigation by the British in the Punjab.
Paul W. Paustian. New York, Columbia university press, 1930.
179p.

Causes of inefficiency of irrigation. A.S. Gibbs. Engineering record.
v.68. p.608-609. November 29, 1913. Reviews results of a
searching investigation carried out during 1911 in India.

Cauvery, Kistnah and Godavery. Being a report on the works constructed on
these rivers for the irrigation of the provinces of Tanjore, Guntoor,
Masulipatam, and Rajahmundry, in the Presidency of Madras. R. Baird
Smith. London, Smith, Elder and co., 1856. 148p.

Cauvery Mettur dam. Engineer. v.155. p.558 June 2, 1933.

Cauvery - Mettur reservoir project, South India. Engineer. v.158.
p.202-206, 212. August 31, 1934.

Complete report and schedules, Sirhind canal. Punjab. Public works
department. Irrigation branch. Lahore, "C & M. gazette" press,
1893. 62p.

Completion report and schedules, upper Swat canal. 1919. India.
North-west frontier province. Public works department. Irrigation
branch. Lahore, 1920. 192p.

Concise report on Punjab irrigation works. M.T. Gibling. Bombay. Public
works department. Technical paper no.43. Bombay, 1932. 19p.
History of irrigation in India; features of notable weirs, silt vanes,
water measurement structures, etc.; drainage and water logging; financial
management.

Correspondence relating to the Mhasvad tank, 1877-79. Bombay presidency.
Public works department. Bombay, Printed at the Government central
press, 1879. 40,13,29p.

Development of irrigation from Ehind canal: a plea for economical use of
water. S.K. Gurtu. Agricultural journal of India. v.15.
p.160-165. March 1920.

Development of irrigation in Deccan canal areas. C.C. Inglis and V.K.
Gokhale. Bombay. Public works department. Technical paper no.49.
Bombay, 1934. 47p. Soil formation and rainfall; history of
development of canal irrigation; effect of canal irrigation on quality
and yield of crops; growth of crops under canal irrigation; ameliorating
effects of irrigation limitations; future of Deccan irrigation;
crop areas on Deccan canals.

Diesel-engine-driven centrifugal pumps irrigate 50,000 acres in India.

J.A. Colaco. Engineering news record. v.90. p.702. April 19, 1923.

Digests of technical notes 1932. India. Central board of irrigation.

Publication no.2. Simla, India, 1932. 33p. Abstracts of papers and discussions presented at Second annual board meeting held at Old Delhi, November 1931, on water logging, design of works on sand foundations, design of canal falls, surface drainage, loss of head through siphons, staunching of canals.

District and canal arboriculture, 1875-7. (Being an appendix to the Forest report of the year.) Punjab. Forest department. Lahore, 1877. 1p.

Diversion of the Periyar. John Pennycuick. Institution of civil engineers. Minutes of proceedings. v.128. 1897. p.140-163. An account of work in India for the irrigation of the Madura district.

Divi pumping project, Madras presidency. Engineer. v.105. p.4991. May 15, 1908. Illustrates and describes works to supply water for irrigation of a portion of Divi island, at the mouth of the Kistna river.

Dukhwan weir. J. Wilkie. Canadian magazine. v.34. p.560-564. April 1910.

\$87,000,000 irrigation project in India. Engineering and contracting. (Water works) v.59. p.1060-1061. May 9, 1923.

Ekruk tank. Bombay presidency. Public works department. Bombay, Printed at the government central press, 1879. 5p.

Electrical irrigation in India. W.L. Stamps. Electrical review. v.115. p.602. November 2, 1934.

Engineering works in India; abstracts. F. Palmer. Engineering. v.122. p.613-614. November 12, 1926.

Engineering works of the Kistna delta; a descriptive and historical account. Compiled for the Madras government. George T. Walch. Madras, Government press, 1899. 2v.

Essays on the utilization of irrigation water, in view to obtaining the largest returns with the least injury to the soil and least waste of water. C.K. Subba Row. Madras agricultural exhibition, 1883. Essays. Madras, 1885. p.39-115.

Experimental irrigation farm at Bellary. Indian engineering. v.21 p.194-195. March 6, 1897. Discussion of the proposed plan of experimental farms being opened to promote agricultural education in the Madras Presidency.

Farm accountancy in the Punjab (India) from 1927-28 to 1932-33.

J. Deslarzes. International review of agriculture. v.27.
p.357E - 364E. November 1936.

Farm accounts in the Punjab, 1932-1933; being the ninth year's accounts of certain farms; with sections on cost of well-irrigation in the Punjab and cost of irrigation by tube well. Sardar Kardar Singh and Sardar Arjan Singh. Punjab. Board of economic inquiry. Publication no.35. Lahore, 1934. 266p.

Florence Nightingale on India. W. Wedderburn. Contemporary review.
v.105. p.509-516. April 1914.

Further papers on the Pravara river irrigation scheme from the years 1882 to 1898. Bombay presidency. Public works department. Bombay, 1898. 55p.

Future of cotton-growing in Sind under perennial irrigation. T.F. Main. Agricultural journal of India. v.19. p.473-484.
September 1924.

General report on irrigation in the Mannar district. Ceylon. Public works department. Colombo, W.H. Herbert, government printer, Ceylon, 1880. 8p.

Glossary of technical and vernacular terms in connection with irrigation in India, together with standard notations. India. Central board of irrigation. Publication no.5. Simla, 1934. 29p.

Government reclamation policy in British India. E.S. Lindley. American society of civil engineers. Transactions. v.94. p.1333-1343. 1930. British Indian landworks; experience with Lower Chenab canal; lessons learned from Indian reclamation.

History of the Periyar project. A.T. Mackenzie. Madras, Printed by the superintendent, government press, 1899. 181p.

How to make state canals without borrowing; how to raise millions and remove the income tax; a few suggestions. Edward A. Prinsep. Lahore, Punjab printing company, limited, 1870. 56p.

India building world's greatest irrigation project. Engineering news.
v.92. p.904. v.93. p.268.
May 22, August 14, 1924.

India soon to dedicate vast irrigating system. Compressed air magazine.
v.36. p.3633. November 1931.

Indian engineering, relating to irrigation, water supply of towns, roads and buildings. William Lumisden Strange. London, G. Routledge & sons, ltd., 1923. 214p.

Indian irrigation: 1921-1924. Engineer. v.141.
p.388-389, 402-403. April 2, 9, 1926.

- Indian irrigation: 1921-1926. Engineer. v.146. p.42-44.
 July 13, 1928. Progress of works; areas irrigated, 1918-1926; causes
 of fluctuations in areas irrigated.
- Indian irrigation. Being a short description of the system of artificial
 irrigation and canal navigation in India: with a proposal for carrying
 the same into effect by private enterprise. C.W. Grant. London,
 Smith, Elder and co., 1854. 45p.
- Indian irrigation; close of the régime. London times supplement.
 v.10. p.113. April 22, 1922.
- Indian irrigation and the Punjab canal colonies. D.N. Bannerjea.
 International review of agricultural economics. n.s. v.3.
 p.212-227. April 1925.
- Indian irrigation problems. F.W. Woods. Times trade and engineering
 supplement. v.13. p.71. September 29, 1923.
 v.14. p.95. April 5, 1924. Conditions
 of water supply in Indus; Hydraulics of surface and sub-soil flow
 of river Indus and its tributaries.
- Indian irrigation problems; inundation and perennial canals. F.W. Woods.
 London times trade supplement. v.12. p.111. April 14, 1923.
- Indian state builds a power and irrigation dam. E.W.T. Slater.
 Engineering news record. v.86. p.1107-1108. June 30, 1921.
- India's largest irrigation project. G.P. Boals. California cultivator.
 v.78. p.453† May 14, 1932.
- Indigenous irrigation works in Bihar and their improvement. G.C. Sherrard.
 Agricultural journal of India. v.11. p.156-167. April 1916.
- Indigenous irrigation works in Peninsular India. A.V. Williamson.
 Geographical review. v.21. p.613-626. October 1931.
 Irrigation by tanks; advantages and disadvantages of tanks; areal
 distribution of tanks; embanking as means of soil and water conservation;
 well irrigation; areal distribution of wells; crops watered from wells;
 desirability of increasing number of wells.
- The Indus and its five tributaries. Engineer. v.147. p.657-658.
 June 14, 1929. Editorial comment on results achieved by British
 irrigation engineers working in northern India.
- Investigation report on protective irrigation works. H.F. Beale.
 Bombay, Printed at the Government central press, 1901. 2v.
- Irrigated forest plantations in the Punjab; abstract. R.M. Gorrie.
 Engineering. v.122. p.348. September 17, 1926.
- Irrigated India; An Australian view of India and Ceylon, their irrigation
 and agriculture. Alfred Deakin. London, W. Thacker and co., 1893.
 322p.

- Irrigated plantations in the Punjab. Review. Empire forestry journal.
v.12. p.113-114. July 1933.
- Irrigation. W.G. Sutton. South African engineer. v.17. p.3,5,7.
May 1928. India and South Africa compared; considers how climate
conditions affect nature of problem and how general physical conditions
affect works carried out to afford irrigation facilities; available
water supplies; Sukkur barrage project features of design of hydraulic
structures; conditions relating to irrigation in India administration
and water laws.
- Irrigation administration report, part 1. Deccan and Gujarat. India.
Bombay presidency. Public works department. 1929/30 - date.
Bombay, 1931 - date.
- Irrigation administration report. United provinces of Agra and Oudh.
Public works department. 1902 - date. Allahabad, 1903 - date.
- Irrigation and intercultivation. A.P. Cliff. Agricultural journal
of India. v.19. p.433-435. July 1924.
- Irrigation and reclamation of land for agricultural purposes, as now
practiced in India, Egypt, Italy, etc., 1875. Washington, D.C.,
Coast and geodetic survey, 1876. 73p.
- Irrigation by pumping. Alfred Chatterton. Madras, Printed by the
superintendent, government press, 1908. 30p.
- Irrigation colonies in India. Laurence Robertson. Journal of the
Society of arts. v.55. p.774-794. June 14, 1907.
Deals especially with the methods adopted for peopling these tracts.
Discussion.
- Irrigation conference, Simla. 1904. Calcutta, Office of the superinten-
dent of government printing, 1905. 3v.
- Irrigation enterprise in India. F.W. Woods. Royal society of arts.
Journal. v.70. p.705-735. September 1,8, 1922. History
of development and outlines of the Sukkur project.
- Irrigation in Bombay. Engineer. v.142. p.660.
December 17, 1926.
- Irrigation in Burma. Times trade and engineering supplement. v.22.
p.318. June 9, 1928. Review of developments in progress;
average annual irrigation area has increased since last decade of 19th
century from quarter of million acres to three-quarters of million;
navigation canals; flood prevention.
- Irrigation in India. Indian engineering. v.93. p.41-42,61-62,81-82,
101-102,121-122,142-145,161-162,185-186. January 21,28, February 4,11,
18,25, March 4,10, 1933. History of development of modern
irrigation in India since beginning of 19th century; between 1875 and
1903; during beginning of 20th century; during World war and post war period.

- Irrigation in India. Civil lines, 1934. Delhi, India, Manager of publication, 5lp.
- Irrigation in India. October 2, 1923. Canadian engineer. v.45. p.373.
- Irrigation in India. October 17, 1908. Outlook. v.90. p.330-331.
- Irrigation in India. engineers. v.1. p.10-21. Journal of the association of chinese and american engineers. October 1920. Government irrigation works.
- Irrigation in India. C.O. Burge. p.772-773. June 29, 1907. Engineering record. v.55l. Deals particularly with the work in the Punjab and Scinde.
- Irrigation in India. F.C. Cotton. v.48. p.831-837. Journal of the society of arts. October 12, 1900. Object of the paper is to show how the nation may be rescued from famines and enriched by the water of its great rivers and the prosperity that will follow.
- Irrigation in India. D.G. Harris. press, 1923. London, H. Milford, Oxford university 100p.
- Irrigation in India. Review for 1917-1918. India. Public works department. Simla, Printed at the government monotype press, 1919. 92p.
- Irrigation in India. L. Jacob. p.800-808. Contemporary review. v.105. June 1914.
- Irrigation in India. Russick Loul Roy. p.104-105. Indian engineering. v.22. August 14, 1897. Discusses the need of improving the water supply for irrigation purposes, reviews the different districts, what has already been done and the results.
- Irrigation in India. Herbert M. Wilson. printing office, 1892. Washington, D.C., Government 363-568p.
-
- 2d edition. U.S. Geological survey. Water-supply and irrigation paper no.87. Washington, D.C., 1903. 238p.
- Irrigation in India, review for 1927-28. Calcutta, Government of India. Central publication branch, 1929. 37p. Statistical report on operations and progress of irrigation in various provinces; financial results of productive and unproductive irrigation, navigation, embankment and drainage works.
- Irrigation in India, 1928-29. Engineer. v.15l. p.711. June 26, 1931. During year, total area irrigated by government works of all classes in British India was 30.7 million acres; area irrigated was largest in Punjab; works completed and progress; works projected.

- Irrigation in India; review for 1933-34. Simla, India. Department of industry and labour, 1935. 53p.
- Irrigation in India; review for 1934-35. Simla, India. Department of industry and labour, 1936. 47p.
- Irrigation in Jeypore stato. Engineering record. v.41. p.35-36. January 13, 1900. Describes the type of heavy earth dams, built where labor alone is cheap, which are afterwards fitted with masonry core walls when they appear necessary.
- Irrigation in Sind. T.F. Main. Agricultural journal of India. v.13. p.653-659. October 1918.
- Irrigation in the Indo-Gangetic plain; with discussion. A.V. Williamson. Geographical journal. v.65. p.141-153. February 1925.
- Irrigation in the Land of the Five waters, the Punjab, India. W.G. Bligh. Engineering news. v.65. p.589-590. May 18, 1911. Information concerning the canals already built and in prospect.
- Irrigation in the Madras presidency, 1908-1909. Engineering. v.90. p.671-673. November 11, 1910. Brief editorial review of the recent report of progress, referring to the various schemes and their results.
- Irrigation in the Mannar district. Reports upon the Akatti Murippu tank and Modaragamoya works. Henry Parker. Ordered by His Excellency the governor to be printed. Colombo, G.J.A. Skeen, government printer, 1881. 13p.
- Irrigation in the northern province. Henry Parker. Colombo, G.J.A. Skeen, government printer, 1886. 6v.
- Irrigation in the northwest. Indian and eastern engineer. v.26. p.182-183. March 28, 1896. From the report of the Irrigation branch of the Northwest provinces, on the Great Ganges canal, the Eastern Jumna canal, the Agra canal, the Betwah canal, with reports of progress.
- Irrigation in the Punjab. K.S. Bajwa. Asiatic review. n.s. v.24. p.8-12. January 1928.
- Irrigation manual for Bengal, being a collection of acts, rules, and government orders relating to embankments, drainage works and canals in that province, with appendices. 2d edition. Calcutta, Printed at the Bengal secretariat press, 1886. 68p.
- Irrigation of alluvial soils. A. Howard and G.L.C. Howard. Agricultural journal of India. v.12. p.185-199. April 1917.
- Irrigation of alluvial soils. Albert Howard and Gabrielle L.C. Howard. Calcutta, Printed at the Baptist mission press, 1917. 14p. Quetta, Baluchistan, Fruit experiment station. Bulletin no.7.

Irrigation on the block system. Description of the system with proposals for applying the same to the Nirā canal and two minor tanks in the Poona district. April 1903. India. Bombay. Public works department. Bombay, 1903. 30p.

Irrigation projects in India and the market for excavating equipment. K.S. McNiece. U.S. Bureau of foreign and domestic commerce. Commerce reports. no.1. p.36-37. January 6, 1930. Lloyd barrage using American excavators; American excavation employed on Sutlej valley scheme; Punjab government projects held in abeyance; small demand for excavators on miscellaneous projects; government departments only customers for excavating equipment; excavating equipment not used by railways; present market small, but future promising.

Irrigation research work in the Punjab. E.M. Taylor. Engineer. v.152. p.37-38. July 10, 1931. Account of initiation of irrigation research, state to which it has advanced, and proposals for its development given in Note on proposed development of scientific research in irrigation branch, Public works department, Punjab.

Irrigation revenue report. India. Bombay presidency. 1897 - date. Bombay, 1898 - date.

Irrigation revenue report. India. North-western provinces. Irrigation branch. 1897 - 1898. Roorkee, 1897-98.

Irrigation revenue report, Sind. 1885/86 - 1916/17. Bombay, 1886 - 1918.

Irrigation revenue report. United provinces of Agra and Oudh. Public works department. Roorkee, 1894.

Irrigation revenue report excluding Sind. India. Bombay. Public works department. 1897/98 - date. Bombay, 1899 - date.

Irrigation tanks in the district of Burdwan. Dhutnath Sarkar. Agricultural journal of India. v.14. p.589-594. July 1919.

Irrigation works in India. Sir John Benton. Journal of the society of arts. v.61. p.717-754. June 13, 1913. An account of the state irrigation works in India, those now in operation and those under construction.

Irrigation works in India. C.M. Haywood. U.S. Bureau of foreign and domestic commerce. Commerce reports. no.244. p.232-233. October 1917.

Irrigation works in India; new projects in the Presidency of Madras. Percy F. Martin. Engineer. v.107. p.109-110. January 29, 1909. Information concerning the Bhavani project, the Tungabhadra scheme, and the Kistna reservoir project.

Irrigation works in India and Egypt. Robert Burton Buckley. London, E. & F.N. Spon, 1893. 348p.

Irrigation works in Madras. Engineering. v.138. p.626.
December 7, 1934.

Irrigation works in the Bombay Deccan and the Bhandardara and Bhatgar dams.
E.C. Snelgrove. Engineering. v.127. p.255-258, 599-600, 601,
743-745, 758, 775-778. March 1, May 17, June 14-21, 1929.

History and purpose of scheme; rainfall, rivers and irrigation systems
of Deccan; features of Bhandardara dam, 282 ft. high; alkali and water
logging. Stability analysis and general design of new Bhatgar (Lloyd)
dam about 188 ft. high; also design of spillway sluices.

Irrigation works in the Jeypore state, Rajputana, India. Charles Egremont
Stotherd. Indian and eastern engineer. v.6. new series.
p.201-205. June 1900. A short description of some of the works,
showing the different methods adopted, and the results attained.

Irrigation works of India. Robert Burton Buckley. 2d edition.
London, E. & F.N. Spon, 1905. 336p.

Irrigation works of India. H.J. Shepstone. Scientific american supplement.
v.80. p.164-165. September 11, 1915.

Irrigation works of India, and their financial results. Being a brief
history and description of the irrigation works of India, and of the
profits and losses which they have caused to the state. Robert B.
Buckley. London, W.H. Allen and co., 1880. 198p.

Lakh canal. Bombay presidency. Public works department. Bombay, 1880.
3p.

Largest British dam completed in India; Mettur dam. Engineering news
record. v.113. p.405-406. September 27, 1934.

Largest dam in the old world; Mettur dam. Compressed air magazine.
v.40. p.4735-4738. May 1935.

Lecture and articles on irrigation in India, America, Egypt and Australia.
Robert Wallace. Edinburgh, 1898. 31p.

Lectures on the ancient system of irrigation in Bengal and its application
to modern problems. Sir William Willcocks. Calcutta, University of
Calcutta, 1930. 128p.

Lloyd and barrage canals scheme. C.S.C. Harrison. Water and water
engineering. v.32. p.467-469. October 20, 1930.
Features of great irrigation scheme involving construction of Stoney
gate barrage, about 1 mi. long, across river Indus, also several
large canals with carrying capacities up to 10,215 sec. ft.

Lloyd barrage at Sukkur on the Indus. Engineering. v.133.
p.128-130, 132. January 29, 1932.

- Lloyd dam at Dhatgar. Engineer. v.146. p.604,607-609.
November 30, 1928.
- Lloyd dam in India, the largest in the world. R. Ryves. Engineering
news record. v.103. p.362-363. September 5, 1929.
- Lower Coleroon Anicut. Indian engineering. v.24.
p.204-205. September 24, 1898. Account of the proposed
improvements and their cost.
- Mahi canal project. Bombay presidency. Public works department.
Bombay, 1899. 43p.
- Man and mosquito in Ceylon. S.V. Pearson. Discovery. v.16.
p.11-14. January 1935.
- Mandalay canal project, (Revised estimate) Burma. Public works department.
Rangoon, Printed by the superintendent, government printing, Burma, 1901.
86p.
- Maramsilli reservoir automatic syphon spillway. P. Davies.
Engineering and contracting. v.66. p.119-121. March 1927.
- Mari-Kanavè dam in southern India. Scientific american. v.99.
p.149, 156-157. September 5, 1908.
- Measuring irrigation deliveries in the Panjab. E.S. Lindley.
American society of civil engineers. Proceedings. v.57.
p.269-283. February 1931.
- Memoranda on irrigation by rajbuhās. Captain W.E. Morton ... with report
and details of rajbuhās. Captain F. Whiting ... Roorkee, Re-printed
at the Thomason college press, 1856. 95p.
- Metur dam, Madras. Engineering. v.133. p.238-241, 301-302.
February 26, March 11, 1932.
- Minutes of proceedings. Punjab engineering congress. Lahore, 1911-1936.
24v.
- Moduling operations on distributary no.8, Nira left bank canal, and
application of the results to other distributaries. C.C. Inglis and
D.V. Joglekar. India. Bombay. Public works department. Technical
paper no.25. Bombay, India, 1928. 24p.
- Môn canals project, 1900. Burma. Public works department.
Rangoon, Printed by the superintendent, government printing, Burma, 1901.
109p.
- Mysore irrigation bill. Mysore engineers association. Bulletin. v.1.
p.128-146. October-December 1923. Legislation recently introduced
regulating irrigation works; deals with water courses, supply
of water, water rates, construction and maintenance of irrigation
works on special terms, compulsory labor on emergencies, customary
labor that may be required to be performed by occupiers of lands
irrigated by an irrigation of drainage work, penalties, etc.

Nira irrigation canal. Engineer. v.83. p.135-136.
February 5, 1897. Describes one of the large works designed for
famine-relief purposes.

Nizamsagar project, Hyderabad state. Civil engineering. (London) v.27.
p.25-27, 29, and 31. August 1932. Features of Indian
irrigation scheme consisting of reservoir nearly 49 sq. mi. in extent at full
supply level, from which water will be led off through 96 mi. of main and
branch canals and 600 mi. of distributaries over 1000 sq. mi. of culti-
vated land; main dam 11,000 ft. long, built of random rubble masonry
with facing of dressed stone; top of dam is 155 ft. above deepest foundation.

Nomograms for hydraulic and other calculations occurring in irrigation work.
Prepared for the Punjab irrigation department. India. Punjab. Public
works department. Irrigation branch. Roorkee, Printed at the Thomason
college press, 1927. 27p.

Note by Mr. C. Addams-Williams, C.I.E., late chief engineer, Irrigation
department, Bengal, on the lectures of Sir William Willcocks, K.C.M.G.,
on irrigation in Bengal, together with a reply by Sir William Willcocks.
Calcutta, Bengal secretariat book depot, 1931. 58p.

Note on canal irrigation and weed distribution. T.S. Sabnis and D.N. Singh.
Journal of the Indian botanical society. v.13. p.1-10.
January 1934.

Note on irrigation in Bengal. P. Claxton. Indian engineering. v.83.
p.192-193. April 7, 1928. Reviews of lecture by W. Willcocks,
delivered at British Indian association hall, emphasizing loss which
Bengal suffered by being deprived of its rich red river water brought
down by floods; to remedy this loss he advocates piercing existing
chain of embankments at suitable points notably opposite old channels
with numerous masonry works.

Note on irrigation on the block system in the Deccan canal tracts.
C.C. Inglis. India. Bombay. Public works department. Technical
paper no.16. Bombay, India, 1927. 19p.

Note on research work done by the special irrigation division since its
formation in June 1916. C.C. Inglis. India. Bombay. Public works
department. Technical paper no.28. Bombay, India, 1929. 36p.

Note on the design of distributaries and their outlets in the Bombay Deccan.
C.C. Inglis. 1st edition. India. Bombay. Public works
department. Technical paper no.19. Bombay, India, 1928. 13p.

Notes on irrigation works; a course of lectures delivered at Oxford under
the auspices of the Common university fund. N.F. Mackenzie.
New York, D. van Nostrand company, 1910. 111p.

Notes on three irrigation projects in the Punjab, India. A.B. Segur.
Engineering news. v.65. p.585-588. May 18, 1911.

Information concerning the western Jumna, the Lower Chenab, and the
great triple project, explaining general conditions in the Punjab.

Observation and record of pressures below works on permeable foundations.
A.N. Khosla. India. Central board of irrigation. Publication
no.8. Simla, 1934. 19p.

On the practice and results of irrigation in northern India. Colonel
W.H. Greathed. With an abstract of the discussion upon the paper.
Ed. by James Forrest ... London, Printed by W. Clowes and sons,
1873. 49p.

Palar Anicut system. Indian engineering. v.22. p.410.
December 25, 1897. General plan of the head works and a cross-
section of the anicut, giving particulars of interest to the irrigation
engineer.

Papers regarding the irrigation of the Agra district from the Ootunghun
river. Roorkee, Printed at the civil engineering college press,
1853. 70p.

Papers relating to the resumption of an extensive irrigation programme.
Ceylon. Department of irrigation. Colombo, R.H. Cottle,
government printer, 1920. 12p.

Periyar irrigation project. E.P. Holton. Scientific american supplement.
v.64. p.159. September 7, 1907.

Problems of irrigation. B.H. Wilsdon. Nature. v.125.
p.674-677. May 3, 1930. Of 10 1/2 million acres irrigated
in Punjab, area threatened with waterlogging has been estimated at
3 3/4 million acres; acres now under irrigation are probably more liable
to damage than those in Punjab, since, in general, soils become heavier
and fall of land flatter proceeding south; need for research has
been recognized; account of results obtained and problems now more
clearly defined.

Proceedings. Irrigation conference. Calcutta, Office of the
superintendent of government printing, India, 1905-6. 3v.

Progress in irrigation in India. Civil engineering. (London)
v.26. p.44-46. January 1932. Features of recent developments
and new works carried out in Deccan and Gujerat, Bombay presidency,
and in Central provinces and Berar.

Progress of irrigation in India. Economic world. n.s. v.31.
p.150-151. January 30, 1926.

Progress of irrigation in India, Egypt and the Sudan. International
review of the science and practice of agriculture. v.11.
p.156-158. February 1920.

- Progress of the Sutlej valley project. Engineer. v.145. p.191.
February 17, 1928. Ferozepore head-works of Sutlej valley project
provide for irrigation on both sides of river, as far as eastern
boundary of Punjab, at Reti, distance of 336 miles.
- Project estimate of the Lower Bari Doab canal, 1901. Punjab. Public
works department. Irrigation branch. Lahore, 1901. 75p.
- Project for the extension and completion of the Chenab canal. 1891.
Punjab. Public works department. Irrigation branch. Lahore,
"C. & M gazette" press, 1892. 194p.
- Protection of our fruit crops from late spring frosts and the conservation
of our wasted rainfall. J.W.N. Cummings. With a note on karezes and
wells and the possibilities of the strainer tube wells in the Quetta valley.
H.A. MacArthur. Quetta, Printed by Chaudry Karam Dad, 1920.
52p.
- Punjab canal colonies. James M. Douie. Journal of the society of arts.
v.62. p.611-623. May 29, 1914. An interesting account
of a novel experiment in Indian civil administration, made possible by
irrigation.
- Punjab irrigation, 1928-29. Indian engineering. v.88.
p.155-156, 177-178. August 23, 30, 1930. Review of annual
irrigation report of Province, including comments on drought, floods
and new construction.
- Punjab irrigation, ancient and modern. James Broadwood Lyall.
Journal of the society of arts. v.44. p.286-304.
February 21, 1896. An exceedingly interesting paper read before the
Indian section, Feb. 13, from which many valuable hints may be derived
by modern engineers in irrigation. Prefaced by remarks from the
chairman of the meeting and followed by a discussion.
- Punjab irrigation system. F.H. Newell. Geographical review. v.5.
p.149-150. February 1918.
- Punjab rivers and works. Description of the shifting rivers of the Punjab
plains and of works on them, namely: inundation canals, flood embankments
and river training works, with the principles for designing and working
them. E.S. Bellasis. 2d edition. London, E. & F.N. Spon, Ltd.
1912. 64p.
- Punjab triple canal system. International review of the science and
practice of agriculture. v.7. p.47-48. January 1916.
- Question des irrigations. Résumé du rapport de la commission anglo-indienne.
India. Irrigation commission. Bruxelles, Impr. Ve A. Mertens et
fils, 1904. 86p.

- Rainfall, irrigation and the subsoil water level of the Gangetic plain in the United Provinces of Agra and Oudh. C.H. Hutton. Agricultural journal of India. v.13. p.197-205, 460-470. April-July 1918.
- Rainfall, irrigation, and the subsoil water reservoirs of the Gangetic plain in the United Provinces of Agra and Oudh. E.A. Molony. Agricultural journal of India. v.12. p.84-89. January 1917.
- Rangarh and Dhil river irrigation-works, Jaipur state, Rajputana. Chas. E. Stotherd. Institution of civil engineers. Sessional notices. no.3. p.76-80. February 1924. Construction details of the two works.
- Recent developments of irrigation in India. M. Nethersole. International engineering congress, 1915. Transactions. p.591-610. San Francisco, Cal., 1916.
- Report. Chaungu, India. Pump irrigation plant. 1921/22. Rangoon, 1923.
- Report. India. Madras presidency. Experimental pumping department. 1906/07. Madras, 1907.
- Report. Punjab irrigation research institute. 1934/35 - date. Lahore, 1935 - date.
- Report of the Central provinces irrigation committee. 1927 - 1929. Nagpur, Printed at the government press, 1929. 367p.
- Report of the Indian irrigation commission, 1901 - 1903. London, Printed for H.M. Stationery off., 1903. 4v. in 1.
- Report on hydraulic experiments on the Bari Doab canal to ascertain the most suitable form for notches of falls on the Sirhind canal. J. Benton. Lahore, Public works department press, 1879. 38p.
- Report on irrigation in Ceylon. Sir John Keane. Colombo, Printed by G.J.A. Skeen, Government printer, Ceylon, 1905. 81p.
- Report on reh, swamp and drainage of the western Junna canal district, Punjab, Public works department. Lahore, Public works department press, 1881. 31p.
- Report on Ujar river project, Kotah. S.K. Gurtu. Indian engineering. v.96. p.268-274. October 6, 1934. Outline of irrigation project involving construction of two weirs up to 76 ft. in height which will cost about 1,260,000 rupees.
- Report on the canal plantations. North-western provinces, India. Public works department. Irrigation branch. Allahabad, 1883 - date.
- Report on the deterioration of the Kali-Burhganga Doab, June, 1889. North-western provinces, India. Public works department. Irrigation branch. Roorkee, Printed at the Thomason civil engineering college press, 1890. 2v.

Report on the Jamrao canal project, Sind. India. Bombay. Presidency.
Public works department. Bombay, Printed at the government
central press, 1907. 76p.

Report on the Nira canal project, Poona district. India. Bombay. Public
works department. Bombay, Printed at the government central
press, 1892. 19p.

Report on the Pravara irrigation scheme. Bombay presidency. Public works
department. Bombay, Printed at the Government central press, 1882.
67p.

Report on the possibility of extending well-irrigation in Bihar and Chota
Nagpur. N.N. Banerjee. Calcutta, 1907. 57p.

Report on the slips in the earthen embankments at the tanks at Ekrūk,
Ashti and Waghād in the Bombay presidency. Bombay presidency. Public
works department. Bombay, Printed at the government central press,
1885. 5p.

Restoration of the ancient irrigation of Bengal. Sir William Willcocks.
Calcutta, Printed by the Calcutta general printing co., ltd., 1928.
25p.

Restoration of the irrigation of Bengal. W. Willcocks. Indian
engineering. v.83. p.152-154, 167-168, 178-180, 195-196,
209-210. March 17, 24, 31, April 7, 14, 1928. Shows what was
system of overflow irrigation evolved by wisdom of great kings of
ancient Bengal; proper overflow irrigation in Ganges delta is impossible
with banks; suggests remedy for deterioration and decay namely,
restoration of ancient system of overflow irrigation; discusses way in
which Western Bengal should be reclaimed; different canals which
originally led off from left bank of Damodar towards Hooghly; must
first be restored and have all obstructions removed and be cleared and
provided with light banks made of earth taken out of canals; same
action will be taken on Midnapur river and its canals.

Revenue report. India. Ajmer-Merwara. Public works department.
1897 - date. Rajputana, 1899 - date.

Revenue report. Bengal. Public works department. Irrigation branch.
1907. Calcutta, 1907.

Revenue report. India. Bihar and Orissa. Irrigation department.
1911/12 - 1932/33. Patna, 1913 - 1934.

Revenue report. India. Punjab. Irrigation department. 1896 - 1911.
Lahore, 1898-1912.

Revenue report. Punjab. Public works department. Irrigation branch.
Lahore, 1883. 4v.

- Revenue report for the triennial periods. India. Punjab. Public works department. Irrigation branch. 1896/97 - 1910/11. Lahore, 1898-1912.
- Revenue report of the irrigation works in Baluchistan. 1913/14 - 1914/15. Quetta, 1914-1915.
- Review of irrigation in India. India. Public works department. 1903/04 - 1927/28. Simla, 1905-1929.
- Review of the revenue report of irrigation and navigation works in Bengal for 1897/98. India. Public works department. Simla, 1899.
- Review of the work of the Irrigation department. India. Central provinces and Berar. Public works department. Irrigation branch. 1918/19 - 1922/23. Nagpur, 1919-1923.
- Rich empire lands that were desert wastes. R. Vere. World to-day. v.49. p.279-284. February 1927.
- Rise and growth of irrigation in India and its further possibilities. S.K. Gurtu. Indian engineering. v.74. p.194-196, 208-210, 221-223. October 6, 13, 20, 1923. Physical configuration; rainfall, its unequal distribution; development of artificial irrigation from pre-historic times; introduction of scientific irrigation in India; irrigation in different provinces; advantages of irrigation, especially storage works; further scope for extension of irrigation.
- Saving of irrigation water in wheat growing. A. Howard and G.L.C. Howard. Agricultural journal of India. v.11. p.14-30. January 1916.
- Saving of irrigation water in wheat growing. Albert Howard and Gabrielle L.C. Howard. Calcutta, Printed at the Baptist mission press, 1915. 14p. Quetta, Baluchistan, Fruit experiment station. Bulletin no.4.
-
- 2d edition. Calcutta, Printed at the Baptist mission press, 1919. 22p.
-
- Calcutta, Superintendent government printing, India, 1921. 22p. Pusa. Agricultural research institute. Bulletin no.118.
- Selections from settlement report of the Sakrand Taluka. (Irrigational settlement.) Sind, India. Revenue survey and settlement department. Hyderabad, 1890. 20p.
- Shwebo canal project, 1899. Burma, Public works department. Rangoon, Printed by the superintendent government printing, Burma, 1899. 123p.
- Sidhnai canal project, including the Koranga, Fazel Shah and Abdul Hakim canals, 1888. Punjab. Public works department. Irrigation branch. Lahore, "Civil and military gazette" press, 1888. 56p.

- Sind irrigation report, 1896-97. Indian engineering. v.24.
p.156-157. September 3, 1898. Gives a short history of
the Sind irrigation works, and a favorable report for the year.
- Sixty years in the East. Sir William Willcocks. Edinburgh and London,
W. Blackwood and sons, ltd., 1935. 338p.
- Sluice gates for the Sarda irrigation scheme. Engineer. v.148.
p.40, 48-49. July 12, 1929. Features of scheme of
northern India, commanding area of 7,000,000 acres; barrage built at Bancassa
has total length of 1965 ft., and is furnished with 34 Ashford patented
gates, 11 to 13 ft. deep; each of gates has span of 50 ft. and is con-
structed of mild steel horizontal bow-string girders, and is covered on
up-stream side with heavy skin plating.
- Some notes on the Irwin canal from the Krishnarajasagara. R.K.R. Seshachar.
Mysore engineers' association. Bulletin. v.8. p.1-270.
April, May and June 1930. Outline and discussion of combined
hydroelectric and irrigation project to command irrigable area of
400,000 acres, necessitating construction of gravity dam about 150 ft.
high; data for design of principal structures, cost estimates, etc.
- Statement and remarks relating to the expenses of irrigation from wells in
the Deccan, Khandesh, etc. Meadows Taylor. Bombay, Printed for
government at the Bombay education society's press, 1856. 15p.
- Statistical examination of the sensitivity of a water table to rainfall and
irrigation. B.H. Wilsdon with R.P. Sarathy. Lahore, Printed by
the superintendent, Government printing, Punjab, 1927. 51p.
Punjab irrigation research institute. Research publication. v.1, no.1.
- Statistical examination of the sensitivity of a water table to rainfall and
irrigation. B.H. Wilsdon, with R.P. Sarathy. Lahore, Printed by the
Superintendent, government printing, 1929. 24p. Punjab
irrigation research institute. Research publication. v.1, no.2.
- Statistics of irrigation, water distribution and working of distributaries
of the canals in the Punjab. Punjab. Public works department.
Irrigation branch. Lahore, 1907. lv.
- Statistics of revenue, expenditure and working of the canals in the Punjab
from the year 1887-1888. 4th edition. Punjab, Public
works department. Irrigation branch. Lahore, Printed at the Punjab
government press, 1914. 421p.
- Statistics of revenue, expenditure and working of the canals in the Punjab,
up to the year 1899-1900. Punjab. Public works department.
Irrigation branch. Lahore, "Civil and military gazette" press,
1901. 122p.
- Study of the conditions under which water of tidal saline creeks is utilized
for crop production in Konkan. V.K. Gokhale. Agricultural journal
of India. Science congress no.1919. p.422-430.

- Sukkur barrage. Indian engineering. v.91. p.192-194, 211-213, 232-235. March 5, 12, 19, 1932. One of world's largest irrigation projects commanding 6,500,000 acres of desert land located on river Indus in Sind, India; dams Indus with 4600 ft. barrier; drag-lines used extensively to speed excavation and cut cost; total length of main-line canals and branches 1600 mi.; distributaries, 4622 miles; final feeders to fields may amount to 50,000 mi.; 46 Ruston-Tucyrus draglines handle 120,000,000 cu.yd. of excavation; canals 180 to 380 ft. wide and 4 to 20 ft. deep; sand storms; heat, and lack of transportation, water, fresh food and comfortable quarters; bonus system results in increased production; conditions governing costs; output figures and working costs.
- Sukkur barrage. Near east. v.31. p.409-410. April 7, 1927.
- Sukkur barrage. Engineer. v.136. p.459. October 26, 1923.
- Sukkur barrage. Engineer. v.148. p.366-367. October 4, 1929.
- Sukkur barrage and Sind irrigation. Engineer. v.150. p.169. August 15, 1930.
- Sukkur barrage canals project, 1919-20, Reports. India. Bombay. Public works department. Bombay, 1920-22. 8v.
- Sukkur barrage irrigation project, 1920. F.W. Woods. Engineer. v.142. p.680-683. December 24, 1926.
- Sukkur barrage project: Sind (II). Civil engineering (London). v.27. p.20-25. December 1932. Building of barrage; under-water work; assembling and placing gates; canal head regulators; operation of gates; drainage; construction of canals; excavating machinery; head regulators of distributaries; criticism of project; cost of project.
- Sukkur irrigation project: Sind. Civil engineering (London). v.27. p.12-16. November 1932. Indus river as source of irrigation water; native irrigation practice; features of Sukkur stoney-gate dam, comprising 66 6-ft. sluiceways with gates for raising water level to height of 17 1/2 ft. above sill.
- Sutlej valley irrigation project in India. Excavating engineer. v.18. p.335-339. September 1924. Describes enormous irrigation project covering area as large as state of New Hampshire and involving as much excavation as that of Panama canal; discusses scheme of irrigation, construction, system of canals and excavations.
- Sutlej valley project. Engineer. v.147. p.93-95, 102. January 25, 1929. Scheme is stupendous; from four weirs 12 canals will lead away water for benefit of 9,200,000 acres; biggest share of new land belongs to Bahawalpur, which will be able to irrigate every year, in desert and riverine, 3,000,000 acres out of five commanded by its six canals; most striking part of Sutlej valley project is fact that 3 1/2 million acres of desert is to be put under crop as years go on, but this is only part of scheme.

- Tank irrigation in Central India. George Palmer. Engineering magazine. v.15. p.59-67, 289-300. April, May 1898. Describing the reservoir system of irrigation used in the state of Hyderabad, with an account of the topographic, climatic, and administrative influences affecting the system; with maps and tables. Shows arrangement of a typical series of tanks, with illustrations of tanks, weirs, and feeders.
- Trend of agricultural development in the United provinces. H.M. Leake. Agricultural journal of India. v.18. p.10-22. January 1923.
- Triennial irrigation report. Bombay presidency excluding Sind. India. Bombay. Public works department. 1904/05 - 1909/10. Bombay, 1905 - 1911.
- Triennial revenue report. India. Bengal. Public works department. Irrigation branch. 1899/1900 - 1910/11. Calcutta, 1903 - 1912.
- Triennial revenue report. Madras presidency. Public works department. Irrigation branch. 1901-1911. Madras, 1903-1912.
- Triennial review of irrigation in India. 1918-1933. Calcutta, 1922-1935.
- Tube-well and its irrigation possibilities. F.H. Vick. Agricultural journal of India. v.11. p.296-300. July 1916.
- Water for parched India. W.Price. Asia. v.33. p.434-439. July 1933.
- INDO - CHINA.
- L'hydraulique agricole au Tonkin. Irrigations du Song-Cau. French Indo-China. Inspection générale des travaux publics. Hanoi, Imprimerie d'extreme-orient, 1929. 25p.
- L'hydraulique agricole en Indochine. Louis J.M. Constantin. Hanoi - Hai-hong, Impr. d'Extrême - Orient, 1918. 83p.
- L'hydraulique agricole en Indochine. Dénabenq. Génie civil. v.81. p.534-537. December 9, 1922.
- Irrigation in Indo-China; abstract. A. Poyaunne. International review of agriculture. v.18. p.63-64. February 1927.
- Irrigations en Indochine, culture du riz. A. Jacobson. Société des ingénieurs civils de France. Memoires. v.89. p.72-75. January 1936.
- Les possibilités d'irrigation et d'assèchement du delta du Tonkin. Génie civil. v.83. p.442-443. November 3, 1923.
- Public works in Indo-China. H.E. Babbitt. Engineering news record. v.107. p.254-255. August 13, 1931.

- La station de pompage et les canaux d'irrigation de Sontay (Tonkin).
J. Gauthier. Génie civil. v.102. p.421-423. May 6, 1933.
- Travaux secondaires d'hydraulique agricole en Cochinchine. J. Robin.
Saigon, C. Ardin et fils, 1918. 25p.

IOWA.

- Irrigation for vegetable crops in Iowa. A.T. Erwin and E.S. Haber.
Iowa. Agricultural experiment station. Bulletin no.308. Ames, Iowa,
1934. 113-143p.

ITALY.

- Alcuni recenti lavori nelle bonifiche delle Venezie. G. Veronese.
Annali della Reale scuola d'ingegneria di Padova. v.1. p.293-313.
November 1925. Some recent irrigation work in the Venice district.
Discusses precipitation and rainfall; drainage areas and drainage
work; water reservoirs and canals, pumping stations; reinforced-concrete
construction work in connection with Rebosola irrigation and pumping
plant.
- Altre considerazioni sulle irrigazioni della Lombardia e particolarmente su
quella dell'alta pianura milanese col nuovo canale del Ticino e studi
idrologici sull'Adda e sulle sue derivazioni. Memoria dell'ingegnere
Elia Lombardini. Milano, Tip. degli ingegneri, 1863. 23p.
- Aspetti tecnici ed economici del problema irriguo nel comprensorio del
costituendo Consorzio "Brenta - Avisio". Italy. Ministero dell'
agricoltura e delle forests. Ispettorato regionale per l'agricoltura
delle Tre Venezie. Treviso, Arti grafiche Longo & Zoppelli, 1932.
58p.
- L'Associazione d'irrigazione dell'agro Ovest-sesia in Vercelli. Cenni
storici, ordinamento amministrativo e tecnico. Associazione l'irrigazione
dell'agro Ovest-Sesia in Vercelli. Vercelli, G. Lignetti, 1930.
16p.
- Atti. L'irrigazione in Italia dal punto di vista tecnico, economico,
legislativo.-Una organizzazione nazionale per il suo maggiore incremento.
Congresso nazionale per l'irrigazione. Rome, Unione delle Provincie
d'Italia, 1925. 324p.
-
- Appendice. Relazioni presentate al congresso
dagli enti della Sardegna. Milano, S.t.i.g.e., 1926. 116p.
Proceedings. Irrigation in Italy from the technical, economic and
legislative point of view. An organization for its greater development.
- Attuali condizioni della pratica in Italia. Annali dei lavori pubblici.
v.69 p.400-422. May 1931. Actual conditions of
Italian irrigation practice. Symposium of two articles: Introduzione
alla II edizione della pubblicazione "Le irrigazioni in Italia". A.
Rampazzi; Quadro sintetico dei risultati raccolti per le diverse regioni
Italiane. G. de Marchi. General review of recent progress; statistical
data on irrigated areas; quantity of irrigation water used; irrigation
water rates and costs of irrigation; duty of water under various Italian
conditions and crops.

Auvenire della irrigazione e i doveri dello stato in Italia. I piccoli servatoi a corona. Monografia prima. Federazione italiana dei consorzi agrari. Piacenza, Stabilimento tipografico Piacentino, 1907. 76p.

Azienda agraria sperimentale di Foggia, relazione sull'anno agrario. Bari. Ente autonomo per l'acque dotto pugliese. Ufficio speciale irrigazioni, 1927/28 - date. Bari, 1929 - date.

L'azienda irrigua di Santa Chiara. E. Pantanelli. In appendice: Caratteristiche e tipi di applicazioni elettroagricole in Puglia. P. Casini. Società elettrica bonifiche irrigazioni, 1929. 58p.

Bericht an den hohen staatsrath des kantons Tessin über das project einer wasser-ableitung aus dem Luganersee für bewässerung der obern Lombardei und die senkung der hochwasserstände des sees. G.H. Legler. Glarus, J.J. Baeschlin, 1883. 85p.

Bewaesserungsanlage der Bonifica Parmigiana-Moglia. G. Escher. Bautechnik. v.13. p.220-224. April 19, 1935. Features of pumping plants, canals and other works for irrigation of Parmigiana-Moglia reclamation project, in Italy, controlling area of 70,000 ha.

Bonifica per irrigazione in Piemonte mediante el sollevamento meccanico dell' acqua con grandi impianti. V. Crotto and V. Soldati. Energia elettrica. v.10. p.366-373. May 1933. Study of irrigation pumping plants and projects in Piedmont; description of Mazze Canavese hydroelectric and irrigation plant; description of hydroelectric-power-plant equipment.

Canale emiliano (progetto Certani) appunto e considerazioni dell' ingegnere Agostino Tacchini (col piano generale ed il profilo del canale) Bologna, N. Zanichelli, 1885. 64p.

Carta delle irrigazioni Venete. Italy. Magistrato alle acque ufficio idrografico. Roma, Istituto poligrafico dello stato, Libreria, 1934. 67p. History, description and detailed maps of irrigation projects of Venetian provinces in northeastern Italy; review of climatic and hydrological conditions; list of irrigation canals; statistics of irrigated lands.

Centoezés é vízerőlihasználás a Piava alsó folyása mentén, a Brentella di Pederobba-társulat területén. G. Lapray. Vízügyi Közlemények. v.16. p.334-351. April - June 1934. Irrigation and utilization of water power along lower Piave on territory of Brentella di Pederobba co. of Veneto region in north Italy, supply irrigation water to area of 3,000 hectares in Treviso district.

Convegno Triveneto per le irrigazioni e la mostra delle irrigazioni. L. Gussoni. Ingegnere. v.2. p.530-537. September 1928. Tri-Venetian irrigation convention and irrigation show. Proceedings of irrigation convention held in Padua, June 1928; short abstracts of papers on use of irrigation water, irrigation economics and Italian overhead irrigation systems; S.A. Mais, S.A.S. Giorgio, S.T.A.M.E.A. and other patented systems of overhead irrigation were exhibited; details of nozzles.

- Décret-loi portant des mesures pour faciliter la construction des réservoirs et des lacs artificiels ainsi que les travaux réglant l'écoulement des eaux publiques. International yearbook of agricultural legislation, 1919. p.317-320. 1920.
- Dei prati del basso milanese, detti a Marcita. Domenico Berra. Milano, Imperiale regia stamperia, 1822. 159p.
- Della condizione idraulica della pianura subapennina fra l'Enza ed il Panaro; Memoria dell'ingegnere Elia Lombardini. Milano, Tipografia e litografia degli ingegneri, 1865. 176p.
- Des canaux d'arrosage de l'Italie septentrionale dans leurs rapports avec ceux du Midi de la France. Traité théorique et pratique des irrigations envisagées sous les divers points de vue de la production agricole, de la science hydraulique et de la législation. Benjamin Nadault de Buffon. Paris, Carilian-Goeury et V. Dalmont, 1843-44. 3v.
- Electricity and soil improvement in Italy. International review of the science and practice of agriculture. v.11. p.294-296. March 1921.
- Elementi di studio in un progetto irriguo. A. Ramadoro. Ingegnere. v.7. p.729-732. October 1933. Review of factors to be studied in projecting irrigation developments; various types of irrigation; measurement of soil porosity; cost of water and economics of irrigation; references to Italian experience.
- Esperimento con impianto elettrico mobile di irrigazione a scorrimento ed a pioggia. P. Simoncini. Energia elettrica. v.5. p.1197-1199. October 1928. Test of a portable electric plant for irrigation by flooding and by sprinkling. Comparative costs and power bill for irrigation by flooding and by sprinkling; used 14-hp. motor set on farm wagon, discharge 60 liters per sec.; comparison is in favor of overhead irrigation.
- General scheme of land improvement in Italy. International review of agriculture. v.20. p.167-172. April 1929.
- Historio Pontine marshes drained; government reclamation project near Rome, Italy. H.H. Wheaton. Civil engineering. v.4. p.78-80. February 1934.
- Hydraulique agricole. Applications. Des canaux d'irrigation de l'Italie septentrionale envisagés sous les divers points de vue de la science hydraulique, de la production agricole et de la législation. Benjamin Nadault de Buffon. 2d edition. Paris, Dunod, 1861-1862. 2v.
- Impianto idroelettrico e di irrigazione di Mazze Canavese della Cassa di Risparmio di Torino. V. Crotto. Energia elettrica. v.10. p.650-657. August 1933. Hydroelectric power and irrigation projects of Mazze Canavese; description of irrigation structures and irrigable lands of project; agricultural results of irrigation.

Irrigation and drainage laws of Italy. R.P. Teele. U.S. Department of agriculture. Office of experiment stations. Bulletin no.192. Washington, D.C., 1907. 100p.

Irrigation and intense culture in other countries. Series of articles dealing with agriculture in Italy and America. H.S. Gullett. Melbourne, J. Kemp, government printer, 1910. 37p.

Irrigation and reclamation of land for agricultural purposes as now practiced in India, Egypt, Italy, etc. 1875. Washington, Coast and goodetic survey, 1876. 73p.

Irrigation et assainissement des terres. Traite de l'emploi des eaux en agriculture. Raphael Pareto. Paris, Roret, 1851 -

Irrigation in Italy. Garden chronicle. v.75. p.178. March 29, 1924.

Irrigation in Italy; abstract. International review of agriculture. v.19. p.16-22. January 1928.

Irrigation in Italy; the artificial lake of Val Borbera; abstract. G. Cornali. International review of agriculture. v.18. p.986. September 1927.

Irrigation in Lybia. (Italian colony). Luigi Luigi. International engineering congress, 1915. Transactions. p.583-590. San Francisco, Cal., 1916.

Irrigation in northern Italy: part 1. Elwood Mead. U.S. Department of agriculture. Office of experiment stations. Bulletin no.144. Washington, D.C., 1904. 100p.

Irrigation in northern Italy: part 2. Elwood Mead. U.S. Department of agriculture. Office of experiment stations. Bulletin no.190. Washington, D.C., 1907. 86p.

Irrigation in southern Europe: being the report of a tour of inspection of the irrigation works of France, Spain, and Italy, undertaken in 1867-68 for the government of India. C.C. Scott-Moncrieff. London, E. & F.N. Spon, 1868. 371p.

Irrigation works in Italy, Luigi Luigi. Engineering. v.98. p.371-375. September 18, 1914. Account of what has been accomplished by scientific irrigation; how the water is provided and distributed.

Irrigazione della bassa Valle del Tevere. Ettore Bascvi. Annali della Società degli Ingegneri e degli Architetti Italiani. v.26. p.253-257. June 1, 1911. Irrigation in the Valley of the Tiber. Details of the cost and design of the project for the irrigation of the Agro Romano.

- Irrigazione e trasformazioni fondiari nell' alto milanese. P. Zanelli.
Atti dei Sindacati Provinciali Fascisti Ingegneri di Lombardia. v.11.
p.353-360. August 1933. Review of practice of application of
water to land, and of preparing agricultural land for irrigation in
Milan highlands, northern Italy.
- Irrigazione in Terra di Bari con le acque dell' Ofanto. Convenienza economico
agraria. Raffaele Tramonto. Bari, G. Laterza & figli, 1932.
31p.
- Irrigazioni in Italia. A. Rampazzi. Annali dei Lavori Pubblici. v.64.
p.85-90. February 1926. Irrigation in Italy. Results of
recent investigation to summarize work done in irrigation in various
parts of Italy with view to closer study of problem.
- Irrigazioni in Italia; notizie sulla estensione delle irrigazioni sulla
modalità di esse e sui prezzi praticati nelle diverse regioni italiane.
2d edition. Italy. Ministero dei lavori pubblici. Servizio idrografico.
Roma, Provveditorato generale dello stato, Libreria, 1931. 597p.
Pubblicazioni no.8.
- Italian irrigation. Luigi Luigi. International engineering
congress, 1915. Transactions. p.530-582. San Francisco, Cal.,
1916.
- Italian irrigation. R.D. Smith. 2d edition. London, 1855. 2v.
- Italian irrigation; a report on the agricultural canals of Piedmont and
Lombardy. R. Baird Smith. London, W.H. Allen and co., 1852. 2v.
- Italy and engineering. Scientific american supplement. v.80. p.11.
July 3, 1915.
- Land reclamation and irrigation works in Italy. Engineer. v.150.
p.182-183. August 15, 1930.
- Landwirtschaftliche meliorationswesen Italiens. Edward Markus.
Wien, W. Frick, 1881. 429p.
- Memorie illustrative della carta idrografica d'italia. Italy. Ministero di
agricoltura, industria e commercio. Roma, 1888-
- Notizie sommarie sulle irrigazioni in Italia. Comunicazione al Congresso
dell' Institut colonial international sessione di Roma-aprile 1905.
Italy. Ministero di agricoltura, industria e commercio. Roma,
Tipografia nazionale di G. Bertero e.c., 1905. 42p.
- Opera di irrigazione nella Bassa Lodigiana. L. Gussoni. Annali della
Reale scuola d'ingegneria di Padova. v.2. p.207-212. September
1926. Irrigation works in the Lodi lowlands. Describes irrigation of
low tract along Po river, 5900 hectares in area, protected by levees,
by means of 12 electric pumping stations, total capacity 7200 liters
per sec., lifting water from rivers to height of 5 to 11 m.

Pratique et legislation des irrigation dans l'Italy supérieure et dans quelques états d'Allemagne. Joseph Mauny de Mornay. Paris, 1844.
2v.

Prima relazione presentata al Parlamento. Italy. Commissione reale per gli studi e proposte relative ad opere d'irrigazione. Roma, 1911.
62p.

Rapport sur les irrigations de la vallée du Pô. Albert Hérisson. Annales. Institut nationale agronomique. no.6. Paris, 1883.
219p.

Regolazione del Lago Maggiore e l'ulteriore utilizzazione de Ticino. Annali del labori pubblici. v.66. p.1-22. January 1928.
Regulation of Lake Maggiore and the ultimate utilization of the flow of the river Ticino. Text of official opinion of Italy's superior council of public works on adjudication of water resources of Lago Maggiore-Ticini watershed and on recommended irrigation and hydroelectric developments in Ticino valley

Relazione al parlamento sull'andamento dell'azienda. Bari. Ente autonomo per l'acquedotto pugliese. 1932/33 - date. Bari, 1934 - date.

Relazione sull'attività dell'Ufficio speciale irrigazione. Bari. Ente autonomo per l'acquedotto pugliese. Ufficio speciale irrigazioni. 1st - 2d. Bari, 1926 - 1928.

Scienza et agricoltura in Italia. Prolusione inaugurale del corso di chimica agraria, letta nella Sapienza di Pisa, giovedì 16 Marzo 1905, con appendici sulla irrigazione in Italia e nell' India e sulla istruzione pubblica nel Giappone, in Germania ed in Italia. Italo Gigliotti. Pisa, Tipografia successori Fratelli Nistri, 1905. 67p.

State irrigation and agriculture in the south of Italy. O. Bordiga. International review of the science and practice of agriculture. n.s. v.3. p.694-704. July 1925.

Sui progetti intesi ad estendere l'irrigazione della pianura nella valle del Po, considerazioni dell' ingegnere Elia Lombardini. Milano, Tip. degli ingegneri, 1863. 39p.

Tariffa - capitolato per le dispense d'acqua dei canali demaniali d'irrigazione (canali Cavour) 31 marzo 1924. Italy. Direzione generale del demanio e delle tasse. Roma, Libreria dello stato, 1924. 22p.

Terreni e irrigazione. Studi e ricerche nei comprensori delle bonifiche padane fra Enza e Secchia (agro Reggiano e Modenese). Rino Rio. Reggio Emilia, G. Rodolfo and figlio, 1932. 298p.

Utenze irrigue di acque pubbliche. Appunti al decreto - legge 20 novembre 1916. Cleto Tosi. Milan, 1917. 21p.

Verslag van een reis naar Frankrijk en Noord - Italie, op last van Zyne
Excellentie den Minister van staat, Minister van kolonien, J.J. Rochussen,
in het jaar 1860. H. de Bruyn gravengage, J. & H. van Langenhuysen,
1863. 123p.

L'Unica maniera d'irrigare campagne veronesi da due parti dell' Adige,
principalmento con l'escrescenze sve facendo navigationi, et essiccationi,
inventione. Verona, Nella stamparia di G. Discepolo, 1594. 56p.

JAVA.

Aménagement des eaux à Java, irrigation des rizières. Rapport établi à la
suite d'une mission d'études aux Indes Néerlandaises. F. Bernard.
Paris, C. Béranger, successeur de Baudry et cie, 1903. 79p.

Irrigatie op Java. R.A. van Sandick. Ingenieur. v.27. p.914-923.
November 16, 1912. Irrigation in Java. Outlines some of the main
systems, and brief description of special features.

Irrigation and river control in the N.E.I. Far eastern review. v.21.
p.35-40. January 1925.

Irrigation in Java. J.E. de Meyier. American society of civil
engineers. Transactions. v.54. p.33-82. 1905.

Irrigation in Java. H.E. Babbitt. Engineering news record. v.107.
p.13-16. July 2, 1931. General description of island and its
irrigation projects; excavation procedure on Tjisadame river dam in which
excavated material is carried off in stream; large irrigation projects
under construction in Java; Patjal river dam.

Irrigation problems in Java. International sugar journal. v.35.
p.176-177. May 1933.

Landbouw en irrigatie op Java. R.A. van Sandick. Ingenieur. v.26.
p.946-950. October 21, 1911. Agriculture and irrigation in
Java. Description of methods employed.

Landbouwscheikundige onderzoekingen omtrent de irrigatie op Java. Louis
Guillaume den Berger. Delft, J. Waltman, jr., 1915. 107p.

Preliminary report on irrigation in Java. J.W. Beardsley. Manila.
Bureau of printing, 1909. 90p.

KANSAS.

Controversy on the use of water from the Arkansas river. C.L. Patterson.
American water works association. Journal. v.22. p.597-613.
May 1930.

Garden city expert gives pumping results. Irrigation age. v.31.
p.39. January 1916.

General status of irrigation in Kansas. H.B. Walker. Irrigation age.
v.31. p.185-186. October 1916.

Intensive farming in Kansas. E.E. Frizell. Irrigation age. v.31.
p.182. October 1916.

Irrigation by pumping in western Kansas. F.D. Coburn. Topeka, State
printing office, 1912. 12p.

Irrigation from reservoirs in western Kansas and Oklahoma. Letter from the
secretary of agriculture transmitting, pursuant to law, a report on
irrigation from reservoirs in western Kansas and Oklahoma, prepared under
supervision of Dr. Samuel Fortier ... Washington, U.S. Government print-
ing office, 1913. 54p. U.S. 52d congress. Senate.
Document no.1021.

Irrigation in Kansas. Don H. Bark. U.S. Department of agriculture.
Office of experiment stations. Bulletin no.211. Washington, D.C.,
1909. 28p.

Irrigation laws of Kansas. With extracts from the laws of the United States
on the subject of irrigation. Eugene F. Ware. Topeka, Kan., Crane
and co., 1896. 61p.

Irrigation of agricultural lands. Kansas statistics for state and counties.
U.S. Bureau of the census. Washington, U.S. Government printing office,
1931. 8p.

Irrigation practice on the Great Plains. Elias Branson Cowgill. Washington,
D.C., U.S. Government printing office, 1897. 39p. U.S.
Geological survey. Water supply and irrigation paper no.5.

Irrigation success in Kansas. G.W. Pepoon. Kansas. Board of agriculture.
Biennial report, 1934. p.105-107. Topeka, Kansas, 1935.

Kansas encourages land drainage and irrigation. Engineering news record.
v.80. p.88-89. January 1918.

Kansas results of pump irrigation. Irrigation age. v.31. p.71.
March 1916.

Making a farm pay in the shallow water section of Kansas. Irrigation age.
v.31. p.74. March 1916.

Preliminary report to the Alfalfa irrigation and land co. on alfalfa by
pump irrigation in western Kansas. H.V. Hinckley. Topeka, Kan.,
The Hall and O'Donald litho co., 1895. 21p.

Proceedings of the 2d annual convention, 1894. Kansas irrigation
association. Hutchinson, News publishing co., 1894. 40p.

- Pumping for irrigation, with special reference to the Arkansas river valley.
J.B. Marcellus. Kansas. Agricultural college. Division of college
extension. Bulletin no.17. Manhattan, Kansas, 1918. 16p.
- Pumping irrigation in Kansas. F.B. Nichols. Irrigation age. v.31.
p.42. January 1916.
- Rain from below for Kansas. L.E. Wallace. Technical world. v.21.
p.383-384. May 1914.
- Relation of crop yields to quantity of irrigation water in southwestern Kansas.
G.S. Knapp. Kansas. Agricultural experiment station. Bulletin no.228.
Manhattan, Kan., 1922. 29p.
- Report of the Board of irrigation survey and experiment, for 1895 and 1896,
to the legislature of Kansas. Topeka, Kansas state printing company:
J.K. Hudson, state printer, 1897. 238p.
- Report. 1913/14 - date. Kansas. State board of irrigation. Topeka,
1914 - date.
- Report. 1915/17 - 1922/24. Kansas. State irrigation commissioner.
Scott city, 1917 - 1924.
- State of Kansas, complainant, vs. the state of Colorado, defendant. no.10.
Brief of complainant ... Original proceedings ... n.p., 1902.
155p.
- State of Kansas, complainant, v. state of Colorado et al., and the United
States, intervenor. Brief for the United States on final hearing.
Washington, D.C., 1906. 223p. At head of title: no.3, original.
In the Supreme court of the United States, October term, 1906.
- State of Kansas, complainant vs. the state of Colorado et al., defendants.
The United States of America, intervenor. no.7, original. Brief of
complainant on final hearing ... n.p., 1905. 256p.
In the Supreme court of the United States. October term, 1905.
- State of Kansas, complainant, vs. the state of Colorado, et al., defendants,
the United States of America, intervenor. Brief on behalf of the state
of Colorado on final hearing ... n.p., 1905. 352p.
At head of title: In the Supreme court of the United States. no.7,
original.
- Sugar on the Kansas plains; where others failed, the Garden city company
makes 40,000 acres pay. A.B. Macdonald. Country gentleman.
v.85. p.10-11. January 24, 1920.
- Underflow in Arkansas valley in western Kansas. Charles S. Slichter.
Washington, D.C., U.S. Government printing office, 1906. 90p.
U.S. Geological survey. Water supply and irrigation paper no.153.
- Windmills and the state of Kansas. Independent. v.77.
p.274. February 23, 1914.

Winter irrigation for western Kansas. G.S. Knapp. Kansas.
Agricultural experiment station. Circular no.72. Manhattan, Kan.,
1919. 8p.

LATVIA.

Meliorācija: Nosusināšana, kultivēšanas darbi, apūdenošana. Rīgā, Krājuma pie
"A./s. Valters un Rapa", 1932. 552p.

LOUISIANA.

Higher river and parched cane fields - dry lean cane years. J.O. Frazier.
Louisiana planter. v.73. p.208. September 13, 1924.

Historia del riego del arroz en el S.O. de Louisiana y en el S.E. de Texas.
Revista de agricultura. supplement. p.85-86. February 1932.

Irrigation of agricultural lands. Louisiana statistics for state and
parishes. U.S. Bureau of the census. Washington, D.C., U.S.
Government printing office, 1931. 11p.

Mechanical tests of pumps and pumping plants used for irrigation and drainage
in Louisiana in 1905 and 1906. W.B. Gregory. U.S. Department of
agriculture. Office of experiment stations. Bulletin no.183.
Washington, D.C., 1907. 72p.

MESOPOTAMIA.

Agriculture in Mesopotamia in ancient and modern times. A.D. Lennie.
Scottish geographical magazine. v.52. p.33-46. January 1936.

Ancient Mesopotamia and the irrigation system that made it a fertile territory.
A. Selwyn-Brown. Scientific american supplement. v.81.
p.309. May 13, 1916.

Construction of a barrage across the Tigris. Science. n.s. v.81.
p.38-39. January 11, 1935.

Herbevloeing van Mesopotamie. R.G. Hoeffelman. Ingenieur. v.33.
p.199-210. March 23, 1918. Characteristics of the delta of
the Euphrates and Tigris rivers. Canals, irrigation, climate, floods,
navigation, and development.

Hindia barrage on the Euphrates. Engineer. v.117. p.87-89.
January 23, 1914. Map and illustrated description of work to
restore the irrigation of Mesopotamia.

Irrigation and cotton growing in Mesopotamia. Engineer. v.129.
p.133-136. February 6, 1920.

L'irrigation de la Mésopotamie. Louis Godard. Génie civil.
v.55. p.454-458. October 16, 1909.
Irrigation in Mesopotamia. Outlines the projects of Sir William Willcocks.

- L'irrigation de la Mésopotamie. Le barrage d'Hindia, sur Euphrate.
P. Calfas. Génie civil. v.64. p.394-396. March 14, 1914.
Irrigation in Mesopotamia. The Hindia dam on the Euphrates. Plans and
location of projected and completed works for reclaiming the country.
- Irrigation in Mesopotamia. Scientific american supplement. v.86.
p.21. July 13, 1918.
- Irrigation in Mesopotamia: recent developments. International review of
the science and practice of agriculture. v.10. p.825-827.
July 1919.
- Irrigation of Mesopotamia. Sir William Willcocks, London, E. & F.N. Spon,
ltd., 1911. 136p.
- 2d edition. With a
preface on the future of Mesopotamia. London, E. & F.N. Spon, ltd.,
1917. 136p.
- Irrigation works in Mesopotamia. W.H. Wheeler. Engineer. v.111.
p.170. February 17, 1911. Information concerning the first
contract in connection with a vast ~~schono~~ scheme of reclamation which will
restore the land to its ancient condition of prosperity.
- Mesopotamia as a country for future development. Cairo, Egypt, Public
works department, 1919. 26p.
- Proposal for the irrigation of Mesopotamia. Blackwood's magazine.
v.174. p.857-867. December 1903.
- Report for the army council on Mesopotamia. Sir John P. Hewett. London,
H.M. Stationery office, 1919. 72p.
- Restoration of the ancient irrigation works on the Tigris, or, The re-creation
of Chaldea. Sir William Willcocks ... being a lecture delivered at a
meeting of the Khedivial geographical society, Cairo, 25th March, 1903 ...
Cairo, National printing department, 1903. 71p.
- River control in Mesopotamia. E. Howell. Quarterly review. v.237.
p.68-84. January 1922.
- Sixty years in the East. Sir William Willcocks. Edinburgh and London,
W. Blackwood and sons, ltd., 1935. 338p.

MEXICO.

- Agrarian problem in Mexico. G. Turnbull. South American. v.8.
p.30-31. November 1919.
- Alegatos que presenta el señor licenciado don Francisco Viesca y Lobatón,
como apoderado del Sindicato de ribereños inferiores del río Nazas
ante la Tercera sala de la Suprema corte de justicia de la nación.
Francisco Viesca Lobatón.
Mexico, Imprenta de la Secretaría de fomento, 1911. 90p.

Aprovechamiento de los terrenos de mala calidad en las zonas irrigadas de Mexico. Irrigacion en Mexico. v.2. p.43-47. November 1930.
Utilization of poor-quality lands in irrigated zones of Mexico. Examples of maguey culture on poor land in Italy, Philippine islands, and Java; while Mexico is rich in fiber-producing plants, little attention has been given to cultivation; economic data to show possibilities.

Aprovechamiento nacional de las aguas de los rios Conchos. Florida y San Pedro en el valle de Conchos, del Estado de Chihuahua. E. Broninann. Revista Mexicana de ingenieria y arquitectura. v.8. p.339-360. July 15, 1930. National utilization of water of Conchos, Florida and San Pedro rivers in Conchos valley of state of Chihuahua. Operation of Doquilla hydroelectric plant, on Conchos river 30 km. above Camargo since 1916 has demonstrated importance of regulation of river flow to agriculture; economic analysis and discussion of advantages of other projects, between Camargo and Chihuahua.

Apuntes sobre irrigación. Notas sobre su organización económica en el extranjero en el país. Una posible solución al problema de la irrigacion nacional que facilita su desarrollo sin que resulte favorecido el capitalismo agrícola. J. Herrera y Lasso. Mexico, Murguia, 1919. 256p.

Bases convencionales propuestas por el Ministro de fomento a los interesados en el uso de las aguas del rio Nazas con el propósito de terminar por un acuerdo mutuo las cuestiones pendientes á virtud del curso de ese rio. Mexico, Oficina tip. de la Secretaria de fomento, 1890. 97p.

Canal irrigation in Mexico. Hunter Morrison. Yale scientific magazine. v.4. p.382-386. May 1898.
Explains the system of the Tiahualilo company of Mexico, the difficulties in the accomplishment of the work, the administration and operation.

Canal irrigation in modern Mexico. C.P. MacKie. Engineering magazine. v.13. p.181-198. May 1897. Descriptive of the Tlahualilo canal system and its construction.

Carlos Ortiz versús la Compañía agrícola industrial colonizadora limitada del Tlahualilo, s.a. Alegato que produce el Señor Lic. Jorge Vera Estañol como apoderado de la compañía demandada. Jorge Vera Estañol. México, Impr. de I. Escalante, 1901. 304p.

Cellular corewalls for embankment projects. C.H. Howell. Engineering news record. v.106. p.359. February 26, 1931.

Cia agrícola industrial colonizadora limitada del Tlahualilo s.a. contra el gobierno federal de la Republica Mexicana. Juicio entablado ante la 3a. sala de la Suprema corte de justicia de la nación. Demanda - contestacion y contrademanda - replica. México, Tip. de Muller hnos., 1909. 310p.

- Climas en los sistemas nacionales de riego. Irrigacion en Mexico.
v.2. p.26-34. November 1930. Climates in Mexico irrigation
systems. General climatic data and principal factors for each of five
irrigation systems in Mexico.
- Colorado river problem. W. Kelly. American society of civil engineers.
Transactions. v.88. p.306-437. 1925.
- Comision nacional de irrigacion y el ingeniero Mexicano. Irrigacion en
Mexico. v.1. p.8-10. October 1930. National irrigation
commission and Mexican engineers. Tabular historical data indicating
foreign engineering talent employed in Mexican irrigation undertakings;
trend is toward gradual substitution by Mexican **engineers and skilled**
mechanics; seven foreign engineers are named as having rendered valued
service in execution of work and training of Mexican personnel.
- Comparación de los tres proyectos estudiados para el desarrollo de la
agricultura y de fuerza hidro-eléctrica en los valles de los rios Conchos
y San Pedro, con las aguas de estas corrientes y del rio Florida, del
estado de Chihuahua. Irrigacion en Mexico. v.2. p.405-413.
March 1931. Comparison of three project studies for development
of agriculture and hydroelectric power in valleys of Conchos and San Pedros
rivers, with waters of these streams and of Florida river, of state of
Chihuahua.
- Condiciones geológicas de los vasos y boquillas respectivas, estudiados para
elegir el mejor vaso auxiliar en la primera unidad del sistema nacional
de riego del rio Lerma. P. Waitz. Irrigacion en Mexico. v.2.
p.488-514. April 1931. Geological conditions of natural source
reservoirs and derivation outlets respectively, studied for selection of
best auxiliary reservoir in the first unit of Lerma river national
irrigation system.
- Convention between the United States and Mexico. Equitable distribution of the
waters of the Rio Grande. Signed at Washington, May 21, 1906.
Washington, U.S. Government printing office, 1919. 7p.
- Co-operation versus competition for international water; the United States and
Mexico must construct regulating works on the Rio Grande. C.H. Pease.
Engineering news record. v.102. p.828-830. May 23, 1929.
- Distribución de las aguas del rio Mazas. Documentos adicionales. Mexico.
Ministerio de fomento, colonizacion e industria. México, Oficina
tip. de la Secretaria de fomento, 1891. 30p.
- Don Carlos Ortiz patrocinado por el Lic. D. Indalecio Sanchez Gavito contra la
Compañia agricola, industrial, colonizadora, limitada del Tlahualilo.
Contestacion al alegato de la compañía. Sentencias de los arbitros.
Indalecio Sanchez Gavito. México, Tipografia economica, 1902. 329p.

- Don Martin project. A. Weiss. American society of civil engineers. Transactions. v.96. p.835-864. 1932. Project undertaken by Mexican government; construction methods and settlement plans; Rio Salado dam consisting of earth and gravel embankment 985 m. in length, maximum height 34.9 m.; spillway round-head buttresses conveying water pressure to counter-forts by radial compression; construction operations; repayment for lands; colonization.
- Don Martin project, Mexico. A. Weiss. New reclamation era. v.20. p.100-101. July 1929. Features of one of largest projects undertaken by Mexican irrigation commission, located on Salado river in states of Coahuila and Nuevo Leon, some 4 miles southwest of Laredo; irrigable area covers 160,000 acres; land ownership, lateral and drainage systems; settlement plans.
- Equipo y procedimientos usados para la construccion de las obras del sistema nacional de riego numero 4. M. Bancalari. Irrigacion en Mexico. v.1. p.7-19. July 1930. Equipment and construction practice on national irrigation system no.4. Outline of works of Rio Salado in states of Coahuila and Nuevo Leon, Mexico; construction camp; transport of materials; construction of earth dam, retaining wall, spillway, and of dike 9 km. long and 9 m. maximum height; ditch excavation.
- Estudio agricola del proyecto Río Mante. Comisión nacional de irrigacion. México, D.F., Editorial "Cvltvra", 1929. 95p.
- Estudio agricola y economico del sistema de riego "Prosidente Calles", Mexico. Comisión nacional de irrigación. Mexico, D.F., Editorial "Cvltvra", 1930. 87p.
- Estudio agrícola y económico del sistema de riego "Rio Salado". Comisión nacional de irrigación. México, D.F., Editorial "Cvltvra", 1930. 206p.
- Estudio formalado para seleccionar el mejor vaso auxiliar en la primera unidad del sistema nacional de riego del rio Lerma. A. Coria. Irrigacion en Mexico. v.2. p.296-321. February 1931. Study prepared for selection of best auxiliary reservoir in first unit of Lerma river national irrigation system. Report of investigation in state of Michoacan.
- Estudio sobre el rio Nazas. - Estados de Coahuila y Durango, Mexico. F.F. Smith. Irrigacion en Mexico. v.5. p.104-125, 200-222, 295-307, 391-407, 485-507. June, July, August, September, October, 1932. Study of Nazas river irrigation project, in states of Coahuila and Durango, Mexico.
- Extensive irrigation scheme. Pan American union. Bulletin. v.32. p.167-169. January 1911.
- Futuro de la region norte de Tamaulipas. J.S. Noriega. Irrigacion en Mexico. v.1. p.39-44. October 1930. Future of region in northern Tamaulipas. Forecast of transformation that will be effected by irrigation.

- Hot lands reclaimed for cotton in Mexico. Popular mechanics. v.41.
p.202. February 1924.
- Informe sobre obras de irrigacion en Mexico. Revista de agricultura.
v.20 p.103-105. July 1936.
- Irrigacion de campos algodoueros. Revista Mexicana de ingenieria y
arquitectura. v.6. p.367-369. July 15, 1928.
Irrigation of cotton fields. Cotton plantation in state of Coahuila,
Mexico; water from 3 wells pumped 24 hours daily for eight months of
year; 150-hp. Diesel Ingersoll-Rand compressors operate air lift, with
one man in charge.
- Irrigation control in the Laguna district of Mexico. J. de la Fuente.
Pan American union. Bulletin. v.58. p.35-41. January 1924.
- Irrigation in Mexico. Pan American magazine. v.37. p.302.
May 1924.
- Irrigation in Mexico. P.M. Griffith. U.S. Bureau of foreign and domestic
commerce. Consular reports. v.60. June 14, 1899. p.711-714.
An account of proposed undertakings which will undoubtedly be of great
benefits to the country.
- Irrigation in Mexico. I.L. Bancalari. American society of civil engineers.
Proceedings. v.55. p.1439-1448. August 1929. Outline of
activities of Mexican government; topography of country as it affects
rainfall characteristics; detailed description of five large projects;
irrigation laws of Mexico; settlement; acceptance of land as payment.
- Irrigation projects under way. Mexican review. v.2 p.10.
November 1917.
- Irrigation works construction in Mexico. R.M. Conner and A. Weiss.
Engineering news record. v.104. p.101-104. January 16, 1930.
Construction of Don Martin dam, 105 ft. high, 348 ft. long, which has
earth fill with concrete face and concrete spillway 565 ft. long with steel
radial gates; earth dike with stone facing closes low points of reservoir;
main canal system; American contractor's construction plant and methods;
labor conditions.
- Labor de la Comision nacional de irrigacion hasta Diciembre de 1931.
Irrigacion en Mexico. v.4. p.197-281. January 1932.
Review of work on National irrigation commission up to December 1931;
descriptions of 7 systems, completed or partly completed, 6 of which are
in operation; notes on 31 projects, on some of which construction has
been started.
- Ley para el fomento de la irrigación en el estado de Guanajuato. Guanajuato,
14 de marzo de 1923. Guanajuato, Talleres gráficos del gobierni,
1923. 16p.

- Mexican national irrigation law. Arturo Reyes Temple. Engineering record.
v.58. p.102-103. July 25, 1908. Explains the
great need of irrigation in Mexico, and gives the law as passed by the
National congress.
- Mexico - Equitable distribution of the waters of the Rio Grande. Convention
between the United States and Mexico providing for the equitable distri-
bution of the waters of the Rio Grande for irrigation purposes.
Washington, D.C., U.S. Government printing office, 1907. 5p.
- Mexico begins irrigation development on large scale. Engineering news
record. v.97. p.16. July 1, 1926.
- Modern Mexican irrigation development. A.M. Valdes. Civil engineering.
v.1. August 1931. p.1009-1014. Design and
construction of storage and diversion dams of Calles system; main storage
dam on Rio Santiago is variable-radius concrete arch about 200 ft. high,
designed with counter-forted gravity abutments to take arch shear;
multiple-arch diversion dam, 150 ft. high, was constructed as overflow
structure by covering downstream face of buttresses with reinforced
concrete slab.
- Obra de la Comision nacional de irrigacion. Ingenieria. v.2.
p.69-75. February 1928. Work of the National irrigation commission.
Discusses irrigation projects in Mexico including Calles, Rio Mante,
D. Martin, Saucedo and Requena dams.
- Obras de riego y fuerza motriz en Mexico. Ingenieria internacional.
v.16. p.371-373. August 1928. Irrigation and power-
development work in Mexico. Outlines program of Mexico government for
conversion of many parts of country into fertile areas.
- Pecos valley irrigation system. L.B. Howell. Engineering news.
v.36. p.181-183. September 17, 1896. Describes a
system having at present 200,000 acres under its operated canals.
Gives map, cross-section of lower dam and views.
- Política hidráulica en México. La Hacienda. v.26. p.290-292.
July 1931.
- Posibilidades de almacenamiento en el Rio Principal de Tijuana. G. Landa.
Ingenieria. v.7. p.4-10. January 1933. Study of
storage possibilities on principal river of Tijuana in northwestern part
of lower California; feasibility of irrigation project.
- Problema de irrigacion en "La Laguna". J.G. Valenzuela. Revista Mexicana
de ingenieria y arquitectura. v.6. p.406-418. August 15, 1928.
Irrigation problem in "The Lagoon". Describes large area in vicinity of
cities of Torreon, State of Coahuila, and Gomez Palacio and Lerdo in
state of Durango; torrential rivers Nazas and Aguanaval are sources of
water supply; former is dry during most of year, but high water periods
are utilized by 10 dams and 29 canals; data on irrigation practice proposed
dam in narrow canyon of Palmito will store 1,813,587,730 cu. m. at
estimated construction cost of \$11,500,000.

Proyecto de sta. Gertrudis. Ingenieria. v.2. p.311, 314-315.

July 1928. Santa Gertrudis project. Project sprang from idea of utilizing water of Sta. Gertrudis rivulet in northern zone of state of Tamaulipas; San Juan river included later; zone to be irrigated bounded on zone by Bravo river, on south by range of hills that flattens out near Anzualdas and Reynosa, and from San Juan river easterly to Gulf; map and description.

El proyecto Rio Mante, en el Estado de Tamaulipas. Ingenieria. v.2. p.215-224. May 1928. Mante river project, in the state of Tamaulipas. Mante river runs through townships of Xicotencati and Villa Juarez in state of Tamaulipas; system and description of works; location and character of irrigable lands; hydrology; yield of irrigation and water required; studies on new utilization; communication lines; status of construction; hydroelectric development; construction equipment; sources of information.

Recent irrigation developments in Mexico. V. Saucedo. Engineering news record. v.102. p.452-455. March 21, 1929. Rainfall and topographic conditions; development under law of 1926; Nueva Espana project has earth dam 105 ft. high with concrete spillway formed by bulb-headed buttresses, auxiliary dam for hydraulic pump; list of 14 projects for irrigation of 2,074,000 acres and development of 210,000,000 hp.

Refutacion que formula el licenciado Jorge Vera Estañol como abogado especial del gobierno federal a los alegatos verbales de la compañía actora expuestos ante la tercera sala de la Suprema corte de justicia de la nacion. Jorge Vera Estañol. Mexico, Impr. de la Secretaria de fomento, 1911. 273p.

Reglamento para la distribucion de las aguas del rio Nazas desde la presa de San Fernando en el estado de Durango hasta la presa de La Colonia en el de Coahuila. México, Oficina tip. de la Secretaria de fomento, 1895. 27p.

Reglamento provisional para la distribucion de las aguas del rio Nazas, desde la presa de San Fernando en el estado de Durango hasta la laguna de Mayran en el de Coahuila. Mexico, Oficina tip. de la Secretaria de fomento, 1891. 18p.

Report upon the water rights of the Tlahualilo company, with special reference to the executive orders of July 1st and August 13th, 1908, made by the Department of fomento, submitted to the trustees for the Tlahualilo bondholders. September 1, 1908. New York, 1918. 243p.

Resumen de las opiniones y comentarios de instituciones científicas, periódicos, profesionistas y particulares (nacionales y extranjeros) sobre "Irrigacion en Mexico". 1930-1932. Mexico. Comisión nacional de irrigación. México, D.F., Talleres gráficos de la nación, 1932. 315p.

Sentencia de la Tercera sala de la Corte suprema de justicia de la nacion.
Mexico, febrero de 1911. Mexico. Suprema corte de justicia. Mexico,
Impr. de la Secretaria de fomento, 1911. 193p.

Sistema de riego del canal Rosales. O. Alba. Irrigacion en Mexico.
v.7. p.104-144. August 1933. Progress report on construction
of Rosales irrigation canal on right bank of Culiacan river in state
of Sinaloa; separate report by A. Weiss, based on study of technical
and economic features, during February and March 1933.

Sistema de riego del Rio Salado. M. Bancalari. Irrigacion en Mexico.
v.1. p.9-17. August 1930. Rio Salado irrigation system.
Project extends along both sides of Salado river on boundary of states
of Coahuila and Nuevo Leon, comprising 65,000 hectares surrounding
Rodriguez station on railroad from Mexico to Laredo; general plan; land
is privately held and government is taking steps for expropriation and
subdivision for colonization; construction in progress during last
four years.

Sistema de riego del Valle del Mezquital. Irrigacion en Mexico. v.1.
p.11-21. May 1930. Irrigation system of Mezquital valley.
Valley 50 km. north-east of Mexico city; comprising towns of Actopan,
Mixquiahuala, Ixmiquilpan and Tula, with adjacent villages and farms;
system constructed by Pachuca light and power co., serving about
10,000 hectares, bought by Mexican government in 1926 for \$750,000 Mex.;
description of present work.

Sistema de riego en el valle del Mezquital, estado de Hidalgo. Ingenieria.
v.2. p.263-270. June 1928. Irrigation system in Mezquital
valley, state of Hidalgo. Ancient irrigation works; hydrology;
development of project; utilization of Salado river; Endo and Ulapa reser-
voirs; available water; irrigable lands; hydroelectric plants; other
projects.

Sistema nacional de riego numero 2, Rio Mante, Tamaulipas. Irrigacion en
Mexico. v.2. p.104-124. December 1930. National
irrigation system no.2, Rio Mante, Tamaulipas. Zone in municipality of
Villa Juarez, southern district, state of Tamaulipas; geology; source
of water supply; derivation, distribution, and outlet canal; irrigable
land; general notes.

Sistema nacional de riego "Presidente Calles" (Rio Santiago, Aguascalientes)
Memoria descriptiva formada por el ingeniero Manual Bancalari, supervisor
técnico de las obras. México. Comision nacional de irrigacion.
Mexico, D.F., Editorial "Cultura", 1930. 122p.

Tepuxtepec rock-fill dam; a major flood-control and irrigation project in
southern Mexico. H.E.M. Stevenson. Civil engineering. v.4.
p.524-528. October 1934.

Trabajos efectuados en 1930 en el sistema nacional de Riego numero 3.
C. Ramirez Ulloa. Irrigacion en Mexico. v.2. p.397-405.
March 1931. Work accomplished in 1930 in number 3 national irrigation
system. Progress report.

200-year-old masonry dams in use in Mexico. J. Hinds. Engineering news
record. v.109. p.251-253. September 1, 1932.

Unusual features of the Rodriguez dam construction; Ambursen type.
C.P. Williams. American water works association. Journal. v.25.
p.355-366. March 1933.

Uso de sifones invertidos como solucion economica para derivar agua de
corrientes de caracter torrencial. L. Lenus. Irrigacion en Mexico.
v.3 p.504-508. October 1931. Use of inverted siphons
as economic solution for diversion of water from streams of torrential
character. Project of diversion dam, combined with inverted siphon, on
Salinas river, for supplying water to irrigate community in state of
Nuevo Leon.

MICHIGAN.

Some studies of the need for irrigation; rainfall chart indicates supplemental
water may be advantageous. O.E. Robey. Michigan. Agricultural
experinent station. Quarterly bulletin. v.14. p.71-76.
November 1931.

MINNESOTA.

Brief of a farmer in a drainage proceeding; state of Minnesota in Supreme
court, October term, 1919. State ex rel, P.C. Westergard, relator. vs.
District court of Stearns county, Minn., respondent, Brief of appeal
from Stearns county, C.R. Sandvig, appellant. Grantsburg, Wis.,
Journal Publishing co., 1922. 119p.

Irrigating strawberries and raspberries. A.M. Streed. Minnesota
horticulturist. v.63. p.70-71. April 1935.

Irrigation an aid in strawberry growing. W.R. Morton. Minnesota
horticulturist. v.61. p.164-165. November 1933.

Last ditch; the oral arguments of a farmer before the Supreme court; a
drainage proceedings, exposing the illegal methods of manipulating
the drainage laws for the benefits of "other interests" and to give
comfort to the enemy in time of war, by tampering food production and
the raising of liberty loans, and destroying water power and water
supply resources. Other interests, the Minnesota holocaust, the
verdict of the Supreme court, with comments and appeal against the
illegal performances of certain members of the Supreme court.
C.R. Sandvig. Grantsburg, Wis., Journal publishing co., 1922.
152p.

My experiences in irrigating fruits and vegetables. A.M. Streed.
Minnesota horticulturist. v.61. p.434 March 1933.

Variability of run-off of Minnesota streams during the low water season
of 1910. Robert Follansbee. Engineering news. v.65.
p.536-539. May 4, 1911. Map and explanation of the
characteristics of the principal river basins, with tables showing
the percentage of total run-off to rainfall.

Water resources investigation in Minnesota. Robert Follansbee.
Association of engineering societies. Journal. v.46. p.297-310.
April 1911. Outlines this branch of U.S. Geological survey
work and describes this investigation in detail.

MISSOURI.

Surface irrigation in southeast Missouri. A.J. Myers. Market
growers journal. v.38. p.434. April 15, 1926.

MONTANA.

Analysis of agriculture on the Milk river irrigation project.
P.L. Slagsvold and G.H. Bingham. Montana. Agricultural experiment
station. Bulletin no.290. Bozeman, Mont., 1934. 80p.

Annual forage crops under irrigation. J.E. Norton. Montana.
Agricultural experiment station. Bulletin no.261. Bozeman,
Mont., 1932. 17p.

Annual report on irrigation possibilities in Montana. Montana irrigation
commission. Helena, Mont., 1920. 96p.

Artesian water for irrigation in Little Bitterroot valley, Montana.
O.E. Meinzer. Washington, D.C., 1917. 37p.
U.S. Geological survey. Water supply paper no.400-B.

Biennial report of state engineer and the Carey land act board. 1st - 4th.
1903-1910. Helena, Mont., 1905-1911.

Conference of irrigation managers at Bozeman, Montana. Engineering news.
v.68. p.864-865. November 7, 1912. Report of
matters discussed at the conference and the conditions of modern systems.

Design and construction of two new reclamation dams; the Gibson concrete-
arch dam and the Echo earthfill dam. Engineering news record.
v.106. p.998-1002. June 18, 1931.

Economic analysis of production problems on the Flathead irrigation project.
S.E. Johnson. Montana. Agricultural experiment station. Bulletin
no.237. Bozeman, Mont., 1930. 88p.

Economic conditions and settlement difficulties on the Milk river project, Montana. H.H. Johnson. New reclamation era. v.19. p.98-102. July 1928. Project development slow; crop methods changing; irrigation costs low; attitude of landowners changing; more farmers necessary; development costs high; credit required for other purposes. Address given at Settlement and reclamation conference, Washington, D.C.

Experiments in the production of crops on alkali land on the Huntley reclamation project, Montana. Dan Hansen. U.S. Department of agriculture. Bulletin no.135. Washington, D.C., 1914. 19p.

Farming with water. E.V. Wilcox. Country gentleman. v.85. p.6-7. October 2, 1920.

Flathead project. Irrigation age. v.31. p.89. April 1916.

Fort Peck dam - an \$84,200,000 aid to navigation on the Missouri river. Engineering news record. v.113. p.693-698. November 29, 1934.

Hearing and argument in the matter of the measurement and apportionment of the waters of the St. Mary and Milk rivers and their tributaries in the United States and Canada, under article VI of the treaty of January 11, 1909, between the United States and Great Britain. St. Paul, Minn., May 24 to 28, 1915. International joint commission (U.S. and Canada). Washington, D.C., Government printing office, 1915. 306p.

Hearing in the matter of the measurement and apportionment of the waters of the St. Mary and Milk rivers and their tributaries in the United States and Canada under article VI of the treaty of January 11, 1909, between the United States and Great Britain. International joint commission (U.S. and Canada.) Chinook, Montana, Lethbridge, Alberta, September 15 and 17, 1921. Washington, D.C., Government printing office, 1923. 91p.

Huntley irrigation project, Montana. U.S. Reclamation service. Washington, D.C., 1909. 26p.

Huntley irrigation project, Montana. Constructed and operated by the U.S. Reclamation service. n.p., Pellen, 1911. 12p.

Hydrometric surveys (stream measurements) in the provinces of Alberta and Saskatchewan 1909 - 1918/19. Ottawa, T. Mulvey, printer to the King, 1910-21. 11v. (Canada. Reclamation service. Water supply bulletin nos. 1-11.)

In the matter of the measurement and apportionment of the waters of the St. Mary and Milk rivers and their tributaries in the United States and Canada under article VI of the treaty of January 11, 1909, between the United States and Great Britain. Order. Ottawa, October 4, 1921. Recommendations. Ottawa, October 6, 1921. International joint commission (U.S. and Canada.) Washington, D.C., Government printing office, 1923. 6p.

- Inventory of Montana irrigation projects. R.B. Tootell. Montana.
College of agriculture and mechanic arts. Extension service.
Bulletin no.124. Bozeman, Mont., 1932. 104p.
- Irrigated crops rotations at the Huntley (Mont.) field station, 1919-35.
Stephen R. Hastings and Dan Hansen. U.S. Department of agriculture.
Technical bulletin no.571. Washington, D.C., 1937. 32p.
- Irrigation and drainage problems in the Gallatin valley. H.E. Murdock.
Montana. Agricultural experiment station. Bulletin no.195.
Bozeman, Mont., 1926. 36p.
- Irrigation development. E.A. Moritz. Reclamation record. v.12.
p.52-54. February 1927. Flathead project, Montana.
- Irrigation development in Montana. S.T. Harding. Montana.
Agricultural experiment station. Bulletin no.103. Bozeman, Mont.,
1915. 211-336p.
- Irrigation in a dry-farming region; the Greenfields division of the Sun
river project, Montana. R.H. Brown. Geographical review. v.24.
p.595-604. October 1934.
- Irrigation in Montana. Dakota farmer. v.40. p.766, 1317.
April 1, July 15, 1920.
- Irrigation in Montana. Samuel Fortier and others. U.S. Department of
agriculture. Office of experiment stations. Bulletin no.172.
Washington, D.C., 1906. 100p.
- Irrigation of agricultural lands. Montana statistics for state and
counties. U.S. Bureau of the census. Washington, D.C., Government
printing office, 1931. 13p.
- Laws and regulations relating to the Flathead irrigation project. U.S.
General land office. Washington, D.C., Government printing office,
1915. 17p.
- Lower Yellowstone irrigation project, Montana - North Dakota. Constructed
and operated by U.S. R.S. n.p., Pellen, 1913. 11p.
- Milk river, Montana. Letter from the secretary of War transmitting pursuant
to section 1 of the Rivers and harbor act approved January 21, 1927 and
section 10 of the Flood control act of May 15, 1928, a letter from the
chief of engineers, United States army, dated October 19, 1932, submitting
a report, together with accompanying papers and illustrations, containing
a general plan for the improvement of Milk river, Mont., for the purposes
of navigation and efficient development of its water power, the control
of floods, and, the needs of irrigation ... Washington, D.C.,
U.S. Government printing office, 1933. 257p.
U.S. 73d congress. House. Document no.88.

- Oat and barley varieties under irrigation. J.E. Norton and L. Powers.
Montana. Agricultural experiment station. Bulletin no.266.
Bozeman, Mont., 1932. 27p.
- Permanent agriculture in the Gallatin valley. E.V. Wilcox. Country
gentleman. v.85. p.10-11. October 16, 1920.
- Proceedings. Montana irrigation and drainage institute. 1920 - date.
Bozeman, Mont., 1921 - date.
- Profits in farming on irrigated areas in the Gallatin valley, Montana.
E.L. Currier. Montana. Agricultural experiment station. Bulletin
no.111. Bozeman, Mont., 1916. 52p.
- Readjusting Montana's agriculture; Montana's irrigation resources.
P.L. Slagvold. Montana. Agricultural experiment station.
Bulletin no.315. Bozeman, Mont., 1936. 18p.
- Reargument in the matter of the measurement and apportionment of the waters
of the St. Mary and Milk rivers and their tributaries in the United States
and Canada under article VI of the Treaty of January 11, 1909, between
the United States and Great Britain. Ottawa, Canada, May 3,4, and 5, 1920.
International joint commission (U.S. and Canada). Washington, D.C.,
Government printing office, 1921. 200p.
- Report of the proceedings of the state irrigation convention held in Electric
hall in the city of Helena, Montana, on Thursday, Friday and Saturday,
January 7,8, and 9, 1892; with an appendix showing the state of irrigation
in the counties. Helena, Mont., Independent publishing co., 1892.
87p.
- Return ... Report on the Treaty with the United States relating to boundary
waters and questions arising along the boundary between Canada and the
United States. Signed at Washington, January 11, 1909. George G. Anderson.
Ottawa, 1910. 86p.
- Rules and regulations of the Carey land act board of the state of Montana.
In relation to the entry of land under the provisions of the Carey act.
Adopted August 11, 1909. Together with the laws, state and federal
governing the same. Helena, Mont., State publishing company, 1909.
36p.
- St. Mary and Milk rivers, measurement and apportionment of waters.
Proceedings. International joint commission (U.S. and Canada.)
Washington, D.C., Government printing office, 1917. 4v. in 1.
- Sun river project, Montana; United States reclamation service. S.B. Robbins.
A ssociation of engineering societies. Journal. v.44. p.135-139.
February 1910. Information concerning this project, the irrigation
contemplated, cost, etc.

Supplemental argument in the matter of the measurement and apportionment of the waters of the St. Mary and Milk rivers and their tributaries in the United States and Canada, under article VI of the treaty of January 11, 1909, between the United States and Great Britain. Detroit, Mich., May 15-17, 1917. International joint commission (U.S. and Canada.) Washington, D.C., Government printing office, 1917. 199p.

Use of electric energy in the construction of the Sun river irrigation project. H.N. Savage. Engineering news. v.72. p.870-873. October 29, 1914. Describes the Fort Shaw unit of this project in Montana.

Water power and irrigation in the Jefferson river basin, Montana. J.F. Deeds and W.N. White. Washington, D.C., Government printing office, 1926. 41-116p. U.S. Geological survey. Water supply paper no.580-B.

Water power and irrigation in the Madison river basin, Montana. J.F. Deeds and W.N. White. Washington, D.C., Government printing office, 1925. 30p. U.S. Geological survey. Water supply paper no. 560-A. Discusses geography and physiography, geology, meteorology, soils and drainage, water supply, storage, water rights, irrigation, and water power.

Water supply and St. Mary and Milk river, 1898 - 1917. D.E. Jones and R.J. Durley. Washington, D.C., Government printing office, 1920. 590p. U.S. Geological survey. Water supply paper no.491.

NATAL.

Report on the position and prospects of irrigation in Natal. F.V. Corbett. Pietermaritzburg, 1901. 10p.

Supplementary report by Col. F.V. Corbett on irrigation in Natal, dated 11th November, 1901. Pietermaritzburg, P. Davis & sons, government printers, 1902. 8p.

NEBRASKA.

Biennial report. 1st - date. 1891 - date. Nebraska. Department of roads and irrigation. Lincoln, 1897 - date.

Drouth and its relation to supplement irrigation. J.C. Russel. Agricultural engineering. v.11. p.97-99. March 1930.

Economic limits of cost of water for irrigation: several ditches in Dawson county, Nebraska. R.F. Teele and Paul A. Ewing. A preliminary report. Washington, D.C., 1926. 30p. mimeographed.

Engineers report on power projects in Nebraska. Engineering news record. v.115. p.898. December 26, 1935.

Experimenting with irrigation in the middle west. Electrical world.
v.92. p.744. October 13, 1928.

Experiments with crops under fall irrigation at the Scottsbluff reclamation
project experiment farm. Fritz Knorr. U.S. Department of agriculture.
Department bulletin no.133. Washington, D.C., 1914. 17p.

Farmers' irrigation district, Nebraska. Rehabilitation and agricultural
report by Division of irrigation, Bureau of agricultural engineering,
U.S. Department of agriculture. Paul A Ewing and Wells A. Hutchins...
with classification of lands, by University of Nebraska conservation and
survey division and agricultural experiment station. Washington, D.C.
1933. 93p.

Geology and water resources of the Patrick and Goshen Hole quadrangles in
eastern Wyoming and western Nebraska. George I. Adams. Washington, D.C.,
U.S., Government printing office, 1902. 50p. U.S.
Geological survey. Water supply and irrigation paper no.70.

Irrigated crop rotations in western Nebraska. Carl S. Scofield and James A.
Holden. U.S. Department of agriculture. Technical bulletin no.2.
Washington, D.C., 1927. 26p.

Irrigated crop rotations in western Nebraska, 1912-34. S.H. Hastings.
U.S. Department of agriculture. Technical bulletin no.512. Washington,
D.C., 1936. 36p.

Irrigation in Nebraska. L.E. Hicks. Nebraska. Agricultural experiment
station. Bulletin no.1. Lincoln, Neb., 1888. 32p.

Irrigation of agricultural lands. Nebraska statistics for state and counties.
U.S. Bureau of the census. Washington, D.C., U.S. Government
printing office, 1931. 11p.

Irrigation of certain lands in Nebraska. Hearings ... on S. 4057. A bill
providing for the irrigation of certain land in the state of Nebraska.
February 2 and 7, 1925. Washington, D.C., Government printing
office, 1925. 53p.

Irrigation of certain lands in the state of Nebraska. Hearings ... on
H.R. 11958 by Mr. Shallenberger. A bill to provide for the irrigation
of certain lands in the state of Nebraska. February 12 and 21, 1925.
Washington, D.C., Government printing office, 1925. 29p.

Nebraska irrigation annual. 1896 - first number. Suggestive hand-book for
the progressive citizen, farmer, and business man, containing a stenographic
report of the proceedings of the third annual convention of the Nebraska
state irrigation association, with an appendix of valuable tables and
special articles ... Published at the request of the association
A.G. Wolfenbarger, Pres. Lincoln, Neb., 1896. 234p.

- North Platte irrigation project Nebraska - Wyoming. Information compiled by United States reclamation service, November 15, 1909. Washington, D.C., 1909. 34p.
- Potatoes in irrigated rotations. D.A. Savage. Nebraska. Agricultural experiment station. Bulletin no.282. Lincoln, Neb., 1933. 31p.
- Proceedings. Nebraska state irrigation association. 1st - 1891 - date. Scottsbluff, Neb., 1891 - date.
- Pump irrigation and water table studies. H.E. Weakly. Nebraska. Agricultural experiment station. Bulletin no.271. Lincoln, Neb., 1932. 14p.
- Pump irrigation at the North Platte experimental substation. H.E. Weakly. Nebraska. Agricultural experiment station. Bulletin no.301. Lincoln, Neb., 1936. 12p.
- Pump irrigation in Nebraska. E.E. Brackett and O.W. Sjogren. Nebraska. Agricultural experiment station. Circular no.2. Lincoln, Neb., 1917. 28p.
- Pump irrigation investigations in Nebraska. E.E. Brackett and E.B. Lewis. Nebraska. Agricultural experiment station. Bulletin no.282. Lincoln, Neb., 1933. 31p.
- Report of some agricultural engineering phases of the proposed tri-county irrigation project of central Nebraska. A. Lincoln Fellows. May 1924. Washington, D.C., U.S. Department of agriculture, Bureau of public roads, 1924. 168p. mimeographed.
- Return water, North Platte river, Nebraska. R.H. Willis. American society of civil engineers. Transactions. v.94. p.328-332. 1930.
- Road relocations and bridges involved in power and irrigation project; Keystone dam and supply canal. V.J. Brown. Roads and streets. v.79. p.33-44. September 1936.
- Special survey report of the Department of public works, Bureau of irrigation, water power and drainage. Lincoln, Neb., 1931. 397p.
- Two public power projects get under way in Nebraska; Loup river power project and Sutherland combined power and irrigation project. Engineering news record. v.113. p.469-472. October 1911.
- Use of supplemental water. J.C. Russel. Agricultural engineering. v.11. p.95-97. March 1930.
- Water supply in Nebraska. O.V.P. Stout. Nebraska. Agricultural experiment station. Bulletin no.41. Lincoln, Neb., 1895. 153-172p.

NETHERLANDS.

De Nederlandsche wateren. Eene voorlezing, gehouwen voor de Overijsselsche vereeniging ter bevordering van provinciale welvaart. Arnhem, C.A. Thieme, 1874. 40p.

NEVADA.

Agricultural investigations on the Newlands (Nev.) reclamation project. E.W. Knight. U.S. Department of agriculture. Technical bulletin no.464. Washington, D.C., 1935. 35p.

Agricultural Nevada by C.A. Norcross, commissioner industry, agriculture and irrigation. Issued by Sunset magazine homesceekers bureau, San Francisco, California. San Francisco, Sunset publishing house, 1911. 63p.

Biennial report of the Bureau of industry, agriculture and irrigation, 1911-1912-1913-1914. Carson City, Nev., 1913-15. 2v.

Bowman dam competition marks beginning of new era of agricultural development. F.H. Tibbetts. Modern irrigation. v.3. p.13-15. August 1927. Nevada irrigation district completes first important unit of entire project after two years of construction.

Construction of irrigation works by the U.S. Reclamation service. Engineering news. v.56. p.462-463. November 1, 1906. Reviews past work and the large projects now being carried out, especially the Truckee-Carson project.

Controversy on Lake Tahoe level settled by Secretary Ickes. Engineering news record. v.114. p.408. March 21, 1935.

Development of water supplies for irrigation in Nevada by pumping from underground sources. F.L. Bixby and G. Hardman. Nevada. Agricultural experiment station. Bulletin no.112. Reno, Nev., 1928. 38p.

Economic history of the Newlands irrigation project. F.B. Headley and C. Venstrom. Nevada. Agricultural experiment station. Bulletin no. 120. Reno, Nev., 1930. 30p.

Enlarging drum-spaulding system - Cooperative project at completion. F.S. Myrtle. Pac, service magazine. v.17. p.171-179. October 1928. District water used through plants as at present constructed; Lake Fordyce is parent reservoir of system; drum system; 4400 ft. tunnel; wooden flumes were replaced with concrete or metal flumes with wooden or metal substructures; drum power house; new generating unit of 20,000 hp. has been installed connected to Pelton single over-hung impulse wheel; construction of entirely new plant known as Spaulding no.3.

- Exploratory drilling for water and use of ground water for irrigation in Steptoe valley; with introduction, by O.E. Meinzer and others. Washington, D.C., 1920. 70p. U.S. Geological survey. Water supply paper no.467.
- Farming the floor of a lake. E.V. Wilcox. Country gentleman. v.85. p.13+ December 18, 1920.
- Humboldt river distribution and different features affecting these deliveries for the years 1927 to 1931, inclusive. Carson City, Nev., State printing office, 1932. 11lp.
- Irrigation. Wells in the desert. Speech of Hon. Charles W. Kendall, of Nevada, delivered in the House of representatives March 23, 1872. Washington, F. & J. Rives and G.A. Bailey, printers, 1872. 11lp.
- Irrigation in Nevada. Harpers weekly. v.47. p.1027-1029. June 20, 1903.
- Irrigation of agricultural lands. Nevada statistics for state and counties. U.S. Bureau of the census. Washington, D.C., U.S. Government printing office, 1931. 11p.
- Irrigation of field crops in Nevada. C.S. Knight and G. Hardman. Nevada. Agricultural experiment station. Bulletin no.96. Reno, Nev., 1919. 42p.
- Irrigation pumping in Nevada, a practical field of opportunity for the reclamation of arid lands within reach of farmer and settler. The underground water supply: the general principles governing surface and artesian waters, from the standpoint of pumping. The cost of pumping water: methods of computation and tables of cost per irrigated acre, with different kinds of power and at pumping lifts up to 50 feet. Pumping efficiency and types of pumps: discussion of the several kinds of pumps adapted to low-lift irrigation pumping. Wells, pits and reservoir construction: practical information in relation thereto, including cost of drilling artesian wells. Charles A. Norcross. Carson City, Nev., State printing office, 1913. 78p. Nevada. Bureau of industry, agriculture and irrigation. Bulletin no.8.
- Lake Tahoe on the Truckee-Carson irrigation project. Irrigation age. v.31. p.70. March 1916.
- Nevada irrigation district. R. Matthew. Western construction news. v.1. p.38-40. May 10, 1926. Status of progress in construction of dams, tunnels, and road.
- Production of crops and livestock on the Newlands project, 1930. F.B. Headley and C. Venstrom. Nevada. Agricultural experiment station. Bulletin no.123. Reno, Nev., 1931. 14p.

Production of crops and livestock on the Newlands project, 1931.
C. Venstrom. Nevada. Agricultural experiment station. Bulletin no.127.
Reno, Nev., 1932. 26p.

Production of crops and livestock on the Newlands project in 1933.
F.B. Headley and C. Venstrom. Nevada. Agricultural experiment station.
Bulletin no.134. Reno, Nev., 1934. 8p.

Production of crops and livestock on the Newlands project in 1934.
F.B. Headley. Nevada. Agricultural experiment station. Bulletin
no.138. Reno, Nev., 1935. 9p.

Report. Nevada state engineer. 1st - date. 1903/04 - date.
Carson City, Nev., 1905 - date.

Report of irrigation investigations, Humboldt river valley, Nevada.
J.D. Stannard. Nevada. Agricultural experiment station. Bulletin
no.54. Reno, Nev., 1901. 9lp.

Report on Soda lakes investigation, Truckee-Carson project, near Fallon, Nev.
Charles H. Lee and W.O. Clark. Washington, D.C., Government
printing office, 1916. p.657-706.

Truckee-Carson-Lake Tahoe project. Letter from the secretary of agriculture,
transmitting, in response to House resolution no.270, information
relating to Truckee-Carson-Lake Tahoe project. Washington, D.C.,
Government printing office, 1912. 160p. U.S. 62d congress.
House. Document no.451.

Water supply and irrigation in Nevada. L.H. Taylor. Nevada. Agricultural
experiment station. Bulletin no.52. Reno, Nev., 1902. 64p.

NEW JERSEY.

Irrigation in New Jersey. E.B. Voorhees. U.S. Department of agriculture.
Office of experiment stations. Bulletin no.87. Washington, D.C.
1900. 40p.

Irrigation of Seabrook farms, N.J. R.W. DeBaun. Market growers journal.
v.26. p.373-374. May 15, 1920.

Is irrigation gaining? H.F. Huber. Market growers journal. v.39.
p.842. October 15, 1926.

Notes on irrigation in Connecticut and New Jersey. C.S. Phelps and
E.B. Voorhees. U.S. Department of agriculture. Office of experiment
stations. Bulletin no.36. Washington, D.C., 1897. 64p.

Overhead irrigation at the Seabrook farms, New Jersey. C.F. Seabrook.
Engineering and contracting. v.48. p.112-115.
August 8, 1917.

Supplemental irrigation on the Atlantic coast. F.E. Staebner and G.A. Mitchell.
Agricultural engineering. v.11. p.101-104. March 1930.

Surface and sub-surface irrigation. C.H. Missley. New Jersey agriculture.
v.13. p.6. July 1931.

NEW MEXICO.

Ancient irrigation methods mingled with new in northern New Mexico.

C.M. Johnstone. Hydraulic engineering. v.5. p.34-35, 42.

September 1929. It is pointed out that methods of planting, cultivating and harvesting crops in some sections of New Mexico are same as practiced century ago, while in other section most modern methods are used as results of irrigation.

Annual report of the Elephant Butte district. Rio Grande irrigation project.
1922. n.p., 1923.

Bluewater-Toltec project. V.L. Sullivan. Engineering world. v.31.
p.334-335. December 1927. Description of storage project for irrigation of 10,000 acres of New Mexico, including single-arch reinforced-concrete dam, 97 ft., for mining reservoir of 53,000 acre-ft.; methods of pouring concrete in freezing weather.

Carlsbad irrigation project, New Mexico. Information compiled by United States Reclamation service, November 15, 1909. n.p., 1909.
29p.

Chemical characteristics of the waters of the Middle Rio Grande conservancy district. J.D. Clark and H. Mauger. New Mexico university. Bulletin Chemistry series. v.2. Albuquerque, N.M., 1932. 35p.

Conservancy district on the Rio Grande; project in New Mexico includes flood control, irrigation, drainage. L. Noftzger. Engineering news record.
v.104. p.968-971. June 12, 1930.

Conservancy laws adapted to irrigation development. J.L. Burkholder.
Engineering news record. v.106. p.758. May 7, 1931.

Conserving flood waters in New Mexico. A.S. Tipton. Irrigation age.
v.32. p.22-23. December 1916.

Description of the canals, reservoirs and franchises of the Santa Fe irrigation company, of Santa Fe, New Mexico. Santa Fe, N.M., New Mexican printing company, 1891. 15p.

Drainage ditches for Rio Grande irrigation project. L.M. Lawson.
Engineering news. v.89. p.574-575. October 5, 1922.

Drainage works of the Rio Grande irrigation project. J.L. Burkholder.
Engineering news record. v.83. p.543-549. September 18, 1919.

- Economic limits of cost of water for irrigation, Carlsbad project, New Mexico. R.P. Teele and Paul A. Ewing. A preliminary report. Washington, D.C., 1926. 20p. mimeographed. Issued by Bureau of agricultural economics and public roads.
- Extending time of construction payments Rio Grande, federal irrigation projects, New Mexico - Texas. Hearings before the Committee on irrigation and reclamation, U.S. Senate, 70th congress, 1st session on S. 4167, a bill extending the time of construction payments on the Rio Grande federal irrigation project, New Mexico - Texas. April 26, 1928. Washington, D.C., U.S. Government printing office, 1928. 44p.
- Harnessing the Rio Grande. F. Tilden. World's work. v.59. p.73-76. August 1930.
- Hearings upon the bill H.R. 17939. Committee on foreign affairs, House of representatives ... January 24, 1905. Washington, D.C., Government printing office, 1905. 12p.
- In the Department of state. In re the Elephant butte dam affair (Rio Grande claim) Filed by Dr. Nathan Boyd. n.p., 1922. 166p.
- Irrigating seventeen thousand acres of municipal land. C.C. Cragin. Engineering news. v.77. p.428-429. March 15, 1917.
- Irrigation in Mesilla valley, New Mexico. F.C. Barker. Washington, D.C., Government printing office, 1898. 51p. U.S. Geological survey. Water supply and irrigation paper no.10.
- Irrigation in New Mexico. Vernon L. Sullivan. U.S. Department of agriculture. Office of experiment stations. Bulletin no.215. Washington, D.C., 1909. 42p.
- Irrigation in New Mexico. H.W. Yeo. Professional engineer. v.13. p.20-21. May 1928. Community ditches; interstate streams and irrigation; La Plata river compact; principal projects; middle Rio Grande conservancy district; large possible projects.
- Irrigation of agricultural lands. New Mexico statistics for state and counties. U.S. Bureau of the census. Washington, D.C., U.S. Government printing office, 1931. 12p.
- Irrigation projects planned in New Mexico. Engineering news record. v.102. p.73. January 10, 1929.
- Irrigation resources of New Mexico. Charles D. Miller. Address delivered before the New Mexico chautauque association, New Mexico resources day, August 5, 1911, Mountainair. Santa Fe, N.M., New Mexican printing company, 1911. 35p.
- La Vegas irrigation project, New Mexico. H.H. Barnett. Engineering record. v.62. p.306-307. October 8, 1910. Illustrated description of a collapsible dam and canal system.

Message from the President of the United States, transmitting a report from the secretary of state, with accompanying papers, in regard to the equitable distribution of the waters of the Rio Grande. February 14, 1903. Washington, D.C., Government printing office, 1903. 159p.
U.S. 57th congress. Senate. Document no.154.

Middle Rio Grande conservancy project, Albuquerque, New Mexico. Letter from the secretary of the interior transmitting status and information relative to development of official plan for flood control, drainage, and irrigation, by J.L. Burkholder, chief engineer and Pearce C. Rodey, attorney, for middle Rio Grande conservancy district, Albuquerque, New Mexico, November 12, 1927. Washington, D.C., U.S. Government printing office, 1928. 22p. U.S. 70th congress. House. Document no.141.

Middle Rio Grande conservancy district, New Mexico. J.D. Holmes. Western construction news. v.5. p.566-568. November 25, 1930. Works and activities of Conservancy district, consisting of flood control, drainage, and irrigation over area 150 mi. long and one to five mi. wide, in counties of Sandoval, Bernalillo, Valencia, and Socorro, 50 mi. north to 100 mi. south of Albuquerque; four diversion dams will be built across river at about equal intervals.

Models aid in designing irrigation waste-way; New Mexico project. W.R. Barrows and A.W. Newcomer. Civil engineering. v.4. p.595-598. November 1934.

New Mexico and statehood. Admission into the union essential to territory's material progress. Analysis of Culbertson-Stephens bill. Proposed treaty with the United States of Mexico. Abstracts from the decisions of the Supreme court of New Mexico in the Elephant Butte dam case; with citations from the laws of the United States relating to the use of water for irrigation. Nathan E. Boyd. Washington, D.C., Judd & Detweiler, printers, 1902. 47p.

New requirements of crops for irrigation water in the Mesilla valley, New Mexico. D.W. Bloodgood and A.S. Curry. New Mexico. Agricultural experiment station. Bulletin no.149. State college, N.M., 1925. 48p.

Plan irrigation project in New Mexico. Engineering news record. v.102. p.73. January 10, 1929. Abstract of preliminary investigation and report by state engineer on project located on south side of San Juan river in northwestern New Mexico; contemplating irrigation of about 700,000 acres.

Portales irrigation project. Engineering record. v.63. p.274-276. April 29, 1911. From a paper by R.P. Woods, read before the Indiana engineering society. Illustrated description of a project in New Mexico, pumping from underground sources.

Problems at Conchas dam. G.H. Matthes. Civil engineering. v.6. p.440-441. July 1936.

- Progress on Rio Grande conservancy project. Engineering news record.
v.106. p.759. May 7, 1931.
- Report of the chief engineer, Joseph L. Burkholder, submitting a plan for
flood control, drainage and irrigation of the middle Rio Grande conservancy
project. Albuquerque, N.M., 1928. 2 parts.
- Report on lower Rio Grande project. Prepared by U.S. Reclamation service.
McAllen, Tex., Lower Rio Grande valley water users' association,
192? 74p. mimeographed.
- Report on the irrigation works of the Rio Grande dam and irrigation company
in the Rio Grande valley, from Engle, New Mexico, to Fort Quitman, Texas.
J.L. Campbell. El Paso, Tex., 1894. 65p.
- Results of Irish experiments in the Bluewater New Mexico irrigation district.
F. Garcia and S.C. Young. New Mexico. Agricultural experiment station.
Bulletin no.218. State College, N.M., 1934. 28p.
- Rio Grande development project in New Mexico. R.G. Hosea. Engineering
news record. v.98. p.400-401. March 10, 1927.
Conservancy district plans irrigation, drainage and flood protection
on 150 miles of river; field work in progress.
- Rio Grande irrigation project, New Mexico. Information compiled by United
States Reclamation service, November 15, 1909. n.p., 1909. 35p.
- Sinking of wells on desert lands. Hearings before the Committee on irrigation
of arid lands, House of representatives, on H.R. 24074, a bill to
encourage and promote sinking of wells on desert lands in the state of
New Mexico ... Washington, D.C., U.S. Government printing office, 1912.
1 pamphlet.
- Sistema de riego "Carlsbad" en Nuevo Mexico, E.U.A. A. Orive y Alba.
Ingenieria. v.2. p.345-347, 370-371, 408-413. August, September 1928.
Carlsbad irrigation system in New Mexico. Describes system of irrigation
used in municipality of Eddy, N.M.; water from Pecos river, in Pecos
forest reserve; storage reservoirs; dams; distribution canals; drainage
works; area of gypsum lands presents special difficulties as to cultiva-
tion, requiring deep drains where gypsum beds lie within 50 cm. of
surface; distribution system; operation; organization.
- 6000-acre irrigation project on the Arroyo Hondo, New Mexico. Engineering
record. v.66. p.304-306. September 14, 1912.
Illustrated description of the building of an uncoursed rubble masonry
dam and an earthen diversion dam with a buttressed concrete core wall.
- Statement by Dr. Nathan Boyd in re Elephant Butte (New Mexico) dam enterprise
and General Anson Mills' international (El Paso) dam scheme. Proposed
treaty with the republic of Mexico. Injunction suit. United States versus
Rio Grande dam and irrigation company. Abstracts from official documents
and from the decisions of the courts, etc. Washington, D.C., Judd &
Detweiler, printers, 1902. 156p.

Status of land and capital in the Elephant Butte irrigation district.
A.L. Walker and A.S. Curry. : Journal of land and public utility
economics. v.4. p.75-84. February 1928.

Taming the Rio Grande. R.F. Crawford. Compressed air magazine. v.39.
p.4559-4563. October 1934.

Waters of the Rio Grande and its tributaries. Letter from the secretary of
the interior, transmitting, by direction of the President, orders and
regulations of the Interior department touching use, appropriation, or
disposition for irrigation of the waters of the Rio Grande and its
tributaries in Colorado and New Mexico. Washington, D.C., Government
printing office, 1911. 197p. U.S. 62d congress. House, Document
no.39.

Well-plugging program saves irrigation water; old leaking wells in Roswell
artesian base in New Mexico. Engineering news record. v.111.
p.598-599. November 16, 1933.

NEW ZEALAND.

Ingenious irrigation scheme. Scientific american. v.120. p.47.
January 18, 1919.

Irrigation and its practice. R.B. Tennent and J.R. Marks. New Zealand
journal of agriculture. v.28. p.145-160, 252-265, 357-380.
v.29. p.108-118, 381-389. v.30. p.71-76. March - April,
June, August, December 1924. February 1925.

Irrigation for New Zealand. F.W. Furkert. New Zealand journal of
agriculture. v.14. p.449-463. June 1917.

Irrigation in Canterbury. F.W. Hilgendorf. New Zealand journal of
agriculture. v.48. p.231-234. April 1934.

Irrigation in Canterbury. R.L. James. New Zealand journal of science &
technology. v.15. p.280-305. January 1934.
Result of experiments conducted in Canterbury, New Zealand, in autumn
1933 to test feasibility of irrigation for province.

Irrigation in Canterbury. A.H. Flay. New Zealand journal of science &
technology. v.16. p.185-205. January 1935. Report on progress
and results of investigations of agricultural value of irrigation made
at Seafield demonstration and experiment station, Mid-Canterbury;
permanent-pasture treatment and results.

Report of annual general meeting February 20th to 24th, 1934 held at Dunedin.
New Zealand society of civil engineers. Proceedings. v.20. 369p.
1933-34. Reports of special committees on economic development of
rural roads, municipal engineers, corrosion, status of engineers,
education of engineers, and standard conditions of contract; irrigation
in central Otago, J. Wood; Poolburn dam, Ida valley irrigation scheme,
T.M. Ball; Wairoa river bridge, R.T. Smith; flow in large pipes,
G.P. Anderson; slipway design, J.M. Webb; propulsion of ships by electricity,

J.M. Stewart; high-speed diesel engine development, L.T. Elsbey; technical aspects of welding, C.W. Turner; construction of paving mixing plant and works depot, W.S. Horne; Lynn drainage scheme, W.A. Gray and T.R.V. Gulliver; lower waikato river, A.D. Mead; circular reinforced concrete reservoirs, K.J. Mawson.

Soils of irrigation areas in Otago central. H.T. Ferrar. New Zealand department of science and industrial research. Geological survey branch. Bulletin no.33. 1929. 42p. Maps and soil survey of irrigable area covering 1177 sq. mi.; maps indicate how irrigation water can best be distributed over land, or removed if drainage is necessary; special problems arising from irrigation; water requirements of land; cost of irrigation water; excessive irrigation; water logging; seepage; subsoil water; sterile patches; saline accumulations.

Some aspects of irrigation farming in central Otago. R.D. Tennent. New Zealand journal of agriculture. v.38. p.149-153. March 1929.

Statistics of irrigated lands in New Zealand. New Zealand journal of agriculture. v.42. p.71. January 1931.

NORTH AMERICA.

Swapping rivers with Canada. C.J. Blanchard. Technical world. v.18. p.443-444. December 1912.

Untersuchungen uber die naturlichen grundlagen der nordamerikanischen bewässerungswirtschaft. Richard Arthur Golf. Halle A.S., Druck von Wischan & Wettengel, 1903. 93p.

NORTH DAKOTA.

Annual report of the state superintendent of irrigation and forestry. 1st - 9th. 1891 - 1900. Bismarck, 1892 - 1901.

Biennial report. North Dakota. State engineer. 1st - date. 1902/03 - date. Bismarck, 1904 - date.

Irrigating from dam water supply. W.S. Duell. Dakota farmer. v.42. p.350. May 1, 1922.

Irrigation in North Dakota. T.R. Atkinson. U.S. Department of agriculture. Office of experinent stations. Bulletin no.219. Washington, D.C., 1909. 39p.

Irrigation manual, containing useful information and tables, appertaining to irrigation by artesian waters, in the states of North and South Dakota, together with many tables, rules and items of miscellaneous information, of value to farmers and business men. W.P. Dutler. Huron, S.D., Huronite printing house, 1892. 252p.

Irrigation of agricultural lands. North Dakota statistics for state and counties. U.S. Bureau of the census. Washington, D.C., U.S. Government printing office, 1931. 8p.

Lignite of North Dakota and its relation to irrigation. F.A. Wilder. Washington, D.C., Government printing office, 1905. 59p. U.S. Geological survey. Water supply and irrigation paper no.117.

Lower Yellowstone irrigation project, Montana - North Dakota. Constructed and operated by U.S. R.S. n.p., Pellen, 1913. 11p.

Proceedings of the first state irrigation congress, held at Bismarck, N.D., October 20th and 21st, 1903. Irrigation congress of North Dakota. Bismarck, 1903. 94p.

Proceedings of the third irrigation congress held at Bismarck, North Dakota, January 25-26, 1905 ... Bismarck, Tribune, state printers, 1905. 85p.

NORTHWESTERN STATES.

Irrigation practices in the northwest. C.C. Vincent. American fruit grower. v.44. p.4. April 1924.

Timothy production on irrigated land in the northwestern states. M.W. Evans. U.S. Department of agriculture. Farmers' bulletin no.502. Washington, D.C., 1912. 32p.

Turning our deserts into gardens; vast acreage in the northwest made fertile. G. Turner. American industries. v.21. p.7-10⁺ January 1921.

U.S. irrigation work in the northwest. Robert Fletcher. Engineering news. v.68. p.892-901. November 14, 1912. Notes on the remarkable accomplishments of the U.S. Reclamation service.

Water utilization in the Snake river basin. W.G. Hoyt. Washington, D.C., Government printing office, 1935. 379p. U.S. Geological survey. Water supply paper no.657.

OHIO.

Increasing aridity of farm lands develops new uses for drain tile. J.H. Stout. Brick and clay record. v.86. p.168. May 1935.

OKLAHOMA.

Irrigation for Oklahoma. G.E. Morrow. Oklahoma. Agricultural experiment station. Bulletin no.18. Stillwater, Okla., 1896. 17p.

Irrigation from reservoirs in western Kansas and Oklahoma. Letter from the secretary of agriculture transmitting, pursuant to law, a report on irrigation from reservoirs in western Kansas and Oklahoma, prepared under supervision of Dr. Samuel Fortier.. Washington, D.C., U.S. Government printing office, 1913. 54p. U.S. 62d congress. Senate. Document no.1021.

Irrigation in Oklahoma. M.R. Bentley. Oklahoma. Agricultural and mechanical college. Extension division. Circular no.111. Stillwater, Okla., 1920. 8p.

Irrigation of agricultural lands. Oklahoma statistics for state and counties. U.S. Bureau of the census. Washington, D.C., U.S. Government printing office, 1931. 8p.

OREGON.

Benefits of irrigation west of the Cascades. G.E. Goodwin. Civil engineering. v.6. p.667-670. October 1936.

Biennial report. Oregon state engineer. 1905 - date. Salem, Ore., 1906 - date.

Biennial report. Oregon reclamation commission. 1st - date. 1926/27 - date. Salem, Ore., 1929 - date.

Building a rolled-fill dam of prewetted earth; MaKay dam 165 ft. high for Umatilla irrigation works; upstream face covered by a continuous slab of reinforced-concrete paving. R. Lowry. Engineering news record. v.100. p.388-391. March 8, 1928.

Canal and drain construction at Vale, Oregon. W.A. Scott. Engineering world. v.32. p.18-19. January 1928. U.S. Bureau of reclamation has in progress important irrigation canal construction and drainage work on Malheur river, in vicinity of Vale, Ore.; main canal for Vale project about 70 miles long; also open drains leading into Malheur river, involving excavation of about 2,000,000 cu.yds.; depths of drains varying from 8 to 12 ft.

Construction of the Deschutes project in Oregon. Hearings before the Senate committee on irrigation and reclamation 70th congress, 1st session, on S.1186. A bill to provide for the construction of the Deschutes project in Oregon and for other purposes. January 12, 1928. Washington, D.C., U.S. Government printing office, 1928. 34p.

Construction progress on dam for Owyhee irrigation project. Engineering news record. v.103. p.248-249. August 15, 1929.

Cost of an irrigation system. A. King. Oregon state horticultural society. Report, 1935. Corvallis, Ore., 1936. p.41-45.

Deschutes project, by the cooperating officers of the state of Oregon and the Reclamation service office at Portland, Oregon. Oregon. State engineer. Portland, 1914. 147p.

- Deschutes project in Oregon. Hearings before the House committee on irrigation and reclamation, 70th congress, 1st session on H.R. 307, by Mr. Sinnott. A bill to provide for the construction of the Deschutes project in Oregon. January 10, 1928. Washington, D.C., U.S. Government printing office, 1928. 36p.
- Deschutes river, Oregon and its utilization. F.F. Henshaw and others. Washington, D.C., U.S. Government printing office, 1914. 200p.
U.S. Geological survey. Water supply paper no.344.
- Design of the Owyhee irrigation dam. J.L. Savage. Engineering news record. v.100. p.663-667. April 26, 1928.
- Drainage and supplemental irrigation for the Willamette valley in Oregon. W.L. Powers. Agricultural engineering. v.4. p.125-127. August 1923.
- Economic aspects of land reclamation in eastern Oregon. J.T. Jardine. Engineering news record. v.106. p.441-443. March 12, 1931.
Excellent soil, adequate water supply and established communities are among physical advantages; markets for principal products are rapidly expanding; expert opinion on financial soundness indicates terms can be met.
- Economic limit of pumping for irrigation, with special reference to Willamette valley. W.L. Powers. Oregon. Agricultural experiment station. Bulletin no.235. Corvallis, Ore., 1928. 47p.
- Economic report on the north unit of the Deschutes project, Oregon. Letter from the secretary of the interior transmitting the economic report on the north unit of the Deschutes project, Oregon, dated February 19, 1926 ... Washington, D.C., U.S. Government printing office, 1927. 41p.
U.S. 69th congress. House. Document no.663.
- Field crops for pump irrigation at Harney branch experiment station, 1920 to 1927. O. Shattuck and R.E. Hutchison. Oregon. Agricultural experiment station. Bulletin no.236. Corvallis, Ore., 1928. 30p.
- Final report of the construction, Tumalo irrigation project, to the Desert land board, state of Oregon, by project engineer. June 1913 - December 1914. Laidlaw, Ore., 1914. 90p.
- Foundation procedure at Owyhee dam. Engineering news record. v.106. p.178-182. January 29, 1931.
- Growing cannery crops with and without irrigation. C. Robertson. Oregon state horticultural society. Report, 1935. Corvallis, Ore., 1936. p.46-49.
- Growing irrigated crops in Harney valley. Ohil Shattuck and D.W. Ritchie. Oregon. Agricultural experiment station. Bulletin no.191. Corvallis, Ore., 1922. 24p.

- Harney and Silver creek projects, irrigation and drainage. John T. Whistler...
and John H. Lewis ... Denver, Smith-Brooks press, 1916. 91p.
- Hinged steel weir gates in the Vale project diversion dam. Engineering
news record. v.105. p.1009-1010. December 25, 1930.
- Information concerning the Owyhee irrigation project, Oregon - Idaho.
Elwood Mead, commissioner Bureau of reclamation. Washington, D.C.,
U.S. Government printing office, 1928. 14p.
- Investigations of irrigation practice in Oregon. A.P. Stover. U.S.
Department of agriculture. Office of experiment stations. Circular
no.67. Washington, D.C., 1906. 30p.
- Irrigation and soil-moisture investigation in western Oregon. H.D. Scudder
and W.L. Powers. Oregon. Agricultural experiment station. Bulletin
no.122. Corvallis, Ore., 1914. 110p.
- Irrigation developments in Oregon. Engineering and contracting. v.54.
p.130. August 11, 1920.
- Irrigation district laws of Oregon, 1929. Salem, Ore., State
printing department, 1929. 104p.
- Irrigation experiments and investigations in western Oregon. A. P. Stover.
U.S. Department of agriculture. Office of experiment stations.
Bulletin no.226. Washington, D.C., 1910. 68p.
- Irrigation in Klamath county. F.L. Kent. Oregon. Agricultural experiment
station. Bulletin no.86. Corvallis, Ore., 1905. 16p.
- Irrigation in Oregon. John H. Lewis and Percy A. Cupper. U.S.
Department of agriculture. Office of experiment stations. Bulletin no.209.
Washington, D.C., 1909. 67p.
- Irrigation in Oregon. John H. Lewis. Canadian engineer. v.25.
p.439-441. September 11, 1913. Read before the Western
canadian irrigation association. Explains the need of irrigation and the
value of water; the water laws, administrative problems, and the work the
state is attempting.
- Irrigation in western Oregon. M.R. Lewis and A. King. Agricultural
engineering. v.12. p.279-282. July 1931.
Field data on water required for production of crops; dry growing
season may make irrigation pay even in areas of heavy annual rainfall;
results of irrigation by Oregon Agricultural experiment station at
Corvallis.
- Irrigation money due Oregon from U.S. Oregon voter, v.17
p.53-55. April 12, 1919.

- Irrigation of agricultural lands. Oregon statistics for state and counties. U.S. Bureau of the census. Washington, D.C., U.S. Government printing office, 1913. 12p.
- Irrigation proves success where annual rainfall is 40 in. Engineering news record. v.107. p.524. October 1, 1931.
Report on experiments conducted by Oregon agricultural experiment station on field, truck garden and fruit crops have demonstrated that agricultural production in Willamette Valley can profitably pay cost of irrigation; supplemental irrigation during summer months is proving successful in many lines.
- Irrigation requirements of the arid and semi-arid lands of the Pacific slope basins. S. Fortier and A.A. Young. U.S. Department of agriculture. Technical bulletin no.379. Washington, D.C., 1933. 69p.
- Irrigation's future. Oregon voter. v.8. p.16-26.
January 6, 1917.
- John Day project, irrigation and drainage. John T. Whistler ... and John H. Lewis ... February 1916. Portland, Ore., Portland printing house company, 1916. 185p.
- Klamath irrigation project, California - Oregon. Information compiled by United States reclamation service, October 1, 1909. n.p., 1909. 26p.
- Land settlement - irrigation - drainage, Oregon's neglected opportunity. R. Howard. Oregon voter. v.8. p.120-122+ January 27, 1917.
- Little Walla irrigation union, a corporation, and about 40 others, plaintiffs, appellants and cross-respondents, vs. Finis irrigation company, a corporation, and about 400 others, defendants and respondents, of which about 50 are also cross-appellants. Brief prepared by state engineer and submitted by attorney general as to the state's interests in the unappropriated waters of the streams in controversy. John H. Lewis, state engineer, A.M. Crawford, attorney-general. n.p., 1911. 56p.
- Malheur and Owyhee projects, irrigation and drainage. John T. Whistler, engineer, U.S. Reclamation service and John H. Lewis, state engineer for Oregon. Denver, Smith-Brooks press, 1916. 201p.
- Management of sandy soils under irrigation. H.K. Dean. Oregon. Agricultural experiment station. Bulletin no.177. Corvallis, Ore., 1921. 26p.
- Need of water legislation in Oregon; prepared at the request of His Excellency, Geo. E. Chamberlain, governor. John H. Lewis. Salem, Ore., W.S. Duniway, state printer, 1907. 32p. Oregon. State engineer. Special report no.1.

- Ochoco project and Crooked river investigations. John T. Whistler ... and John H. Lewis ... June 1915. Washington, D.C., U.S. Government printing office, 1915. 98p.
- Oregon enacts new irrigation-district code. P. A. Cupper. Engineering news record. v.78. p.254. May 3, 1917.
- Oregon will limit use of water for irrigation. P.A. Cupper. Engineering news record. v.79. p.441. September 6, 1917.
- Owyhee irrigation project, Oregon-Idaho. P. Schuyler. Western construction news. v.6. p.381-385. July 25, 1931. Progress report on construction of irrigation project, including curves concrete gravity dam 530 ft. high above bedrock, 835 ft. long.
- Owyhee project. Engineering and contracting. v.65. p.250. November 1926.
- Owyhee tunnels; eastern Oregon. P.R. Hines. Explosives engineer. v.10. p.363-370. December 1932 - January 1933.
- Preliminary report of cooperative irrigation investigations in Oregon on the economical use of irrigation water. W.L. Powers. Oregon. Agricultural experiment station. Bulletin no.140. Corvallis, Ore., 1917. 79p.
- Preliminary report on effect of irrigation on major berry crops in the Willamette valley. C.E. Schuster and others. Oregon. Agricultural experiment station. Bulletin no.277. Corvallis, Ore., 1931. 51p.
- Progress report of the irrigated eighty-acre demonstration farm unit of the Harney branch experiment station, 1927-1930. O. Shattuck and R.E. Hutchison. Oregon. Agricultural experiment station. Bulletin no.270. Corvallis, Ore., 1930. 38p.
- Report. Oregon. Desert land board. 1st - date. 1908/10 - date. Salem, Ore., 1910 - date.
- Report. Suggesting agricultural program for the project. Umatilla project agricultural economic conference. Corvallis, Ore., 1926. 47p.
- Report to Desert land board on Central Oregon project to seepage losses and canal capacities. John Dubuis. December 1, 1914. Salem, Ore., State printing department, 1915. 58p.
- Report to the Federal power commission on uses of Deschutes river, Oregon. Washington, D.C., Government printing office, 1922. 90p.
- Rogue river valley project and Willamette valley investigations, irrigation and drainage. John T. Whistler ... John H. Lewis ... February 1916. Denver, Smith-Brooks press, 1916. 111p.

- Rules and regulations of the Desert land board, pertaining to the reclamation of lands accepted by the state under the Carey act; also Rules and regulations for operating and maintaining Tumalo project. Salem, Ore., State printing department, 1914. 15p.
- Second report on the Willamette valley project outlining a regional plan for development of the Willamette drainage basin. Oregon state planning board. Salem, Ore., 1937. 161p.
- Settlement problem of the Vale and Owyhee projects. H.W. Bashore. New reclamation era. v.20. p.152-155. October 1929. Cost of projects, appropriations and repayment, criticism of federal reclamation; influence of irrigation products on world market; lack of settlers; steps taken to encourage settlement on Vale and Owyhee projects; results; suggestions for securing additional settlers.
- Silver lake project, irrigation and drainage. John T. Whistler... and John H. Lewis ... October 1915. n.p., 1915. 179p.
- Soft ground and lining work on the Owyhee project tunnels. Engineering news record. v.114. p.804-807. June 6, 1935.
- Some suggestions for more profitable farming on the Umatilla irrigation project - Oregon. Oregon. Agricultural college. Extension service. Corvallis, Ore., n.d. 12p.
- State of Oregon making rapid strides under new drainage law. W.L. Powers. Hydraulic engineer. v.5. p.22-24. February 1929. Report of progress in irrigation and drainage work.
- Supplemental irrigation for the Willamette valley. W.L. Powers. Oregon. Agricultural experiment station. Circular no.57. Corvallis, Ore., 1924. 8p.
- Supplemental irrigation in the Willamette valley. M.R. Lewis. Oregon state horticultural society. Report, 1931. Corvallis, Ore., 1932. p.155-160.
- Test proves the practicability of summer irrigation in northwest. C.J. Hurd. Electrical west. v.74. p.40-41. March 1935.
- Twenty-five years of supplemental irrigation investigations in Willamette valley. W.L. Powers. Oregon. Agricultural experiment station. Bulletin no.302. Corvallis, Ore., 1932. 30p.
- Two new U.S. reclamation projects to be built in Oregon; the Owyhee and Vale projects. Engineering news. v.97. p.805-806. November 11, 1926.
- Vale irrigation project. Engineering and contracting. v.65. p.199. October 1926.

Warner valley and White river projects (irrigation and drainage)
John T. Whistler ... and John H. Lewis ... February 1916.
Washington, D.C., Government printing office, 1916. 123p.

Water laws of the state of Oregon. Compiled from Olson's compilation of
Oregon laws and the session laws, 1923, 1925 and 1927. Salem, Ore.,
State printing department, 1928. 90p.

Watering the old Oregon trail. E.V. Wilcox. Country gentleman.
v.85. p.6-7. August 14, 1920.

Willow river irrigation project. Engineering record. v.63. p.564-566.
May 20, 1911. Illustrates and describes a project for irrigating
25,000 acres of sandy loam in Oregon. The largest construction item
is the earth-fill storage dam, having a maximum height of 125 ft.

PACIFIC COAST.

Duty of water in the Pacific northwest. J.C. Stevens. American society
of civil engineers. Transactions. v.83. p.2094-2131. 1919-20.
By duty of water is meant average percentage of soil mixture that should
be maintained for particular soil and crops. Quantity of irrigation water
that with precipitation and unavoidable losses, will maintain required
amount of soil moisture in Pacific northwest region of United States, is
investigated.

Irrigation requirements of the arid and semi-arid lands of the Pacific
slope basins. S. Fortier and A.A. Young. U.S. Department of agriculture.
Technical bulletin no.379. Washington, D.C., 1933. 70p.

PALESTINE.

Irrigation and water-power in Palestine. H.W. Hulbert. Scientific
american. v.127. p.313. November 1922.

Report on duty of water investigations on citrus cultivation at Gan Moshe
near Rishon Le Tsiyon during the years, 1931-32-33. J. Dawson Shepherd,
M.J. Goldschmidt and J.D. Oppenheim. Jerusalem, Printing and
stationery office, 1934. 28p.

La vallée du Jourdain. Audebeau. Académie d'agriculture de France.
Comptes rendus. v.13. p.1009-1011. November 30, 1927.

PERSIA.

Irrigation in Persia by Kanáts. M.A. Butler. Civil engineering.
v.3. p.69-73. February 1933. Description of ancient
method of collecting and conducting water in long underground kanáts,
or artificial underground channels, starting in foothills where ground
water is abundant and conducting it to land to be irrigated; history
of kanát system of irrigation; average annual rainfall in Persia; ancient
Babylonian irrigation laws; methods of establishing grade of kanát.

Irrigation system of Persia. B. Fisher. Geographical review. v.18.
p.302-306. April 1928.

PHILIPPINE ISLANDS.

Angat river irrigation system, Philippines. N. Cortes. Far East review.
v.20. p.434-441. September 1924.

Irrigation in the Philippines. C.E. Gordon. Philippine agricultural
review. v.11. p.139-141. 1918.

Irrigation in the Philippine islands. H.B. Kirkpatrick. Engineering and
contracting. v.36. p.583-585. November 29, 1911.
Illustrated description of the irrigation systems, giving information
concerning the country and crops raised there.

Masterpieces of primitive engineering. Scientific american. v.118.
p.225. March 16, 1918.

Philippine irrigation. Scientific american supplement. v.63.
p.26136-26137. April 6, 1907.

Preparing fields for irrigation. H. Costenoble. Sugar. v.27.
p.497-498. October 1925.

Progress of irrigation in the Philippines. A.D. Williams. Far East
review. v.20. p.20-23. January 1924.

Report of the Committee on irrigation and drainage of the Philippine sugar
association. G.E. Burnham. Planter. v.75. p.108.
August 8, 1925.

Savage irrigation in Luzon: the wonderful rice terraces of the head-hunting
Ifugaos. H. Wright. Scientific american. v.106.
p.108. February 3, 1912.

Venice in the rice fields. H.F. Wilkins. Far East review. v.24.
p.321-325. July 1928.

PORTUGAL.

Étude de géographie humaine. L'irrigation, ses conditions géographiques,
ses modes et son organisation dans la péninsule Ibérique et dans
l'Afrique du nord. Jean Brunhes. Paris, C. Naud, 1902. 579p.

Irrigation, drainage, and flood protection works in Portugal. R. Mayer.
Engineer. v.161. p.590-592. June 5, 1936.

Relatório sobre a irrigação do vale do baixo Limpopo com o projecto
preliminar. J.A. Balfour. Lourenco Marques, Impr. nacional, 1921.
38p.

Relatórios sobre irrigação nos vales do Incomati, Maputo e Umbeluzi.
J.A. Balfour. Lourenço Marques, Imprensa nacional, 1922.
37, 34, 11p.

RHODESIA.

- Annual report. Southern Rhodesia. Division of irrigation. 1931-1934.
Rhodesia agricultural journal. v.29. p.409-419. v.30.
p.997-1006. v.32. p.411-427. June 1932, December 1933,
June 1935.
- Application of water in irrigation. A.C. Jennings. Rhodesia agricultural
journal. v.18. p.56-64. February 1921.
- Ceres irrigation scheme, Shamva. P.H. Haviland. Rhodesia agricultural
journal. v.22. p.754-757. October 1925.
- Cotton growing by irrigation at Glendale. T. Webb. Rhodesia
agricultural journal. v.22. p.685-686. September 1925.
- Irrigation and engineering notes. Rhodesia agricultural journal. v.20.
p.717-719. v.21. p.64-65, 473-475, 627-629. v.22. p.147-148,
390-391. December 1923. February, August, October 1924. February,
June 1925.
- Irrigation loans. H.G. Mundy. Rhodesia agricultural journal. v.32.
p.452-453. July 1935.
- Irrigation notes. Rhodesia agricultural journal. v.27. p.392-396.
v.28. p.294-296. April 1930, March 1931.
- Irrigation works. Rhodesia agricultural journal. v.18. p.55.
February 1921.
- Notes from the irrigation branch. Rhodesia agricultural journal. v.27.
p.507-509, 855-857, 1048-1051. v.28. p.53-57.
May, August, October 1930, January 1931.
- Old Umtali irrigation scheme. C.P. Robinson. Rhodesia agricultural
journal. v.21. p.438-441. August 1924.
- Potato crop under irrigation. G.R. Syfret. Rhodesia agricultural
journal. v.22. p.357-360. June 1925.
- Sabi valley irrigation scheme. J.T. Jollie. Rhodesia agricultural
journal. v.24. p.772-773. July 1927.
- Summer irrigation in Rhodesia. A.C. Jennings. Rhodesia agricultural
journal. v.19. p.683-686. December 1922.
- Umtali river irrigation scheme. C.P. Robinson. Rhodesia agricultural
journal. v.22. p.44-47. February 1925.
- Water: its use for irrigation. E.V. Flack. Rhodesia agricultural
journal. v.21. p.717-725. December 1924.

ROUMANIA.

Canalisarea riurilor si irigatiunii. Constantin Chiru. Buçuresci,
Stabilimentul grafic I.V. Socecu, 1893. 319p.

Région d'inondation du Danube en Roumanie. L. Mrazek. Revue générale des
sciences. v.21. p.605-612. July 30, 1910. Region in Roumania
inundated by the Danube. Describes a system of irrigation similar to
that of the Nile.

Studiu asupra irigatiunilor în România. V. Rosum Bucuresti,
"C. Göbl," 1907. 200p.

RUSSIA.

Fighting drought and irrigation of Volga regions. L. Zaitsev.
El S K v.9/10. p.9-12. 1932. In Russian.

From a Colorado irrigation engineer in soviet central Asia. L.E. Bishop.
Engineering news record. v.105. p.648. October 23, 1930.

Irrigation as a technical factor in socialistic reconstruction of agriculture.
S.A. Delinikaitis. Sotsialisticheskaiia rekonstruktsiia sel'skogo
khoziaistva. v.3. p.118-131. 1932. (In Russian)

Irrigation in the Soviet union; abstract. International review of
agriculture. v.19. p.269-273. March 1928.

Irrigation in Transcaucasia. n.p., 1914. 18p. mimeographed.
In Russian. English translation.

Irrigation in Turkestan. A.P. Davis. Civil engineering. v.2. p.1-5.
January 1932. Review of hydrology and agriculture of Turkestan;
statistical data on irrigation in principal river basins; production
of cotton in Soviet Union; engineering practice; plans of irrigation
construction projected.

Irrigation of the Trans-Volga region. Nikolai Maksimovich Tulaikov.
Moscow, 1935. 15p.

Irrigation opportunities in Russia are great. V.V. Tchikoff.
Engineering news record. v.82. p.190-192. January 23, 1919.

Irrigation projects in Russia. M. Nikolitch. Engineering magazine.
v.50. p.457-459. December 1915.

Centoezések Turkesztánban. A.P. Davis. Vízügyi Közlemények. v.17.
p.313-320. April - June 1935. Irrigation in Turkestan.

Short sketch of the work of irrigation in Russia. General J. Jilinsky.
St. Petersburg, Impr. "Iakor", 1909. 48p.

Short sketch of the work of irrigation in the south of Russia, accomplished
by order of the Ministry of imperial domains under the superintendence of
Lieutenant-general Zilinsky, from 1880 to 1892. St. Petersburg, Impr.

Survey of experimental irrigation for struggle against the drought investigations. P.E. Prostakov. Novochoerkassk, 1929. 46p.

Travaux d'alimentation en eau et d'irrigation dans le midi la Russie. 1908. Direction de l'hydraulique agricole. St. Petersburg, Imprimerie "Iakor", 1908. 60p.

Travaux d'irrigation au Transcaucase. Direction de l'hydraulique agricole. St. Petersburg, Impr. Trenké et Fusnot, 1911. 70p.

Travaux hydrotechniques exécutés dans la zone du chemin de fer sibérien. Direction de l'hydraulique agricole. St. Petersburg, Imprimerie "Iakor", 1908. 50p.

Volga hydro projects. Electrician. v.109. p.199. August 12, 1932.

SIAM.

Administration report. Siam. Irrigation department. 1914/15 - 1925/26. Bangkok, 1927.

Administration report of the Royal irrigation department of Siam, 1914-1926. Review by H.W. Jack. Malayan agricultural journal. v.19. p.395-398. August 1931.

Civil engineering in Siam. H.E. Babbitt. Engineering news record. v.106. p.929-931. June 4, 1931. Engineering and construction; highways; irrigation; municipal work in Bangkok; water works; expenditures on irrigation projects in Siam; memorial bridge.

General report on irrigation and drainage in the lower Menam valley. J. Homan van der Heide, engineer of the waterstaat of Netherlands India, temporarily placed at the disposal of the Siamese government. Printed by order of the H.E. Chow Phya Devesr Wongse Wiwadt, minister of agriculture. Bangkok, 1903. 149p.

Irrigation in Siam. John Barrett. U.S. consular reports. v.51. May 1896. p.30-33. Account of the progress made by the Siamese in the art of irrigation, from which it appears that artificial irrigation is well advanced in Siam and its advantages fully appreciated. A description of some important irrigation works now in progress.

Irrigation in Siam. Far eastern review. v.24. p.184-186. April 1928. Administrative report of Royal irrigation department of Siam; history of large-scale controlled irrigation in that country; descriptions of more important works and projects; topography, soil and rainfall; administrative report, 1914-15 to 1925-26; Prasak irrigation works are most notable; Subhan project; Jiengrak and Bang Hia drainage project; dredgers.

Irrigation in Siam. Far eastern review. v.25. p.176-179.
April 1929. Completion of Prasak south canal; barrage consists of 6 spans, 12.5 m. clear, and has height of 12.1 m.; head regulator consists of 8 spans of 4.2 m. each.

Irrigation in Siam, 1914-15 to 1925-26 inclusive. Engineer. v.145.
p.147-149. February 10, 1928.

Mededeelingen betreffende de werkzaamheden bij het irrigatie-departement in Siam. J. van Tubergen. Ingenieur. v.25. p.430-438.
June 4, 1910. Irrigation in Siam. Describes recent developments.

Project estimate for works of irrigation, drainage and navigation to develop the plain of central Siam. Siam. Irrigation department.
Bangkok, Printed at the "Bangkok daily mail," 1915. 4v.

SOUTH AFRICA.

Administration report of the chief engineer, irrigation. Transvaal (Colony) Lands department. Irrigation branch. Pretoria, 1909.

Ancient river system of the Kalahari and the possibility of its renewal. J.W. Gregory. Nature. v.113. p.539-540. April 12, 1924.

Annual report. South Africa. Irrigation commission. 1926-1934.
Capetown, 1928-1935.

Bon Accord irrigation - Transvaal. E.H. Hughes. Engineer. v.139.
p.155. February 6, 1925.

Buchuberg irrigation works on Orange river, Prieska. Report on the proposed Buchuberg canal from the Orange river by Mr. W.B. Gordon ... director of irrigation (with plans), to which is appended a report by Mr. Cyril Crowther ... showing an estimate of quantities and an abstract of cost. Presented to both houses of Parliament by command of His Excellency the governor, 1907. Cape Town, Cape times limited, government printers, 1906. 11p.

Co-operation in irrigation works. Farming in South Africa. v.4.
p.314. October 1929.

Design and construction of small irrigation canals. W.L. Strange.
Pretoria, Printed at the Government printing and stationery office, 1905. 75p.
Transvaal. Department of irrigation and water supply.
Bulletin no.2.

Eastern Kalahari project. E.H.L. Schwarz. South African mining and engineering journal. v.38. p.353-354. December 3, 1927.
Western part of Kalahari project, which consists in turning the Cunene into Ovamboland, and restoring 70,000 square miles of what is practically desert into fertile land, is engaging attention of government.

- Erosion below a South African dam; Van Ryneveld's pass. P.R.R. Bisschop.
Civil engineering. v.2. p.623-625. October 1932.
- Example of enterprise. E.J. van Meerten. Farming in South Africa.
v.8. p.111-112. March 1933.
- Final report. Transvaal inter-colonial irrigation commission. Presented
to both houses of Parliament by command of His Excellency the governor.
Pretoria, Government printing and stationery office, 1908. 148p.
- Fish river surveys. Report by Mr. W.B. Leane ... upon proposed schemes at
Strydom's Kraal, Cradock, with covering letter by Mr. W.B. Gordon ...
director of irrigation. Presented to both houses of Parliament by
command of His Excellency the governor, 1906. Cape Town, Cape
times limited, government printers, 1906. 22p.
- Forestry in relation to irrigation in South Africa. K.A. Carlson.
South Africa. Forest department. Bulletin no.5. Pretoria, 1913.
18p.
- Further note on the proposed Ashton canal irrigation project, dated 28th
September, 1909, by Mr. F.E. Kanthack, director of irrigation. Presented
to both houses of Parliament by command of His Excellency the governor,
1909. Cape Town, Cape times limited, government printers, 1909.
17p.
- Further report upon the reservoir and irrigable lands at Van Wyk's Vley.
Garwood Alston. Presented to both houses of Parliament by command of
His Excellency the governor, 1887. Cape Town, W.A. Richards and sons,
Government printers, 1887. 12p.
- Great drought problem of South Africa. Journal of the department of
agriculture of South Africa. v.11. p.324-337. October 1925.
- Hartz river valley irrigation scheme; report of H.C. Litchfield, engineer-
in-charge, covering letters by the Chief inspector. Cape Town, 1899.
53p.
- Interim report. Inter-colonial irrigation commission. Pretoria, 1905.
166p.
- Irrigation. W.G. Sutton. South African engineering. v.17.
p.3,5,7. May 1928. India and South Africa compared;
considers how climatic conditions affect nature of problem and how
general physical conditions affect works carried out to afford irrigation
facilities; available water supplies; Sukkur barrage project features
of design of hydraulic structures; conditions relating to irrigation
in India administration and water laws.
- Irrigation and settlement of irrigated land in the Union of South Africa.
R.J. van Reenen. International review of agriculture. v.21, part 2.
p.1-7, 48-54. January - February 1930.

Irrigation and water supply. Annual report. Transvaal (Colony)
Irrigation and water supply department. Pretoria, 1907.

Irrigation in South Africa. Engineer. v.106. p.301-302.
September 18, 1908. A summary of a report by a commission appointed
by Lord Milner to investigate inter-colonial irrigation.

Irrigation in South Africa. London times trade supplement. v.12.
p.63. March 31, 1923.

Irrigation in South Africa. South African engineering. v.37.
p.81-82. April 15, 1926. Second report of finance commission
on schemes that require improvements and financial relief.

Irrigation in South Africa. C.D. Förde. Geographical journal. v.65.
p.342-349. April 1925.

Irrigation in South Africa. W.A. Legg. Journal of the society of arts.
v.60. p.327-344. February 9, 1912.
Describes conditions and reviews irrigation development in the past and
the possibilities of the future. Discussion.

Irrigation in the South-western districts of Transvaal. Harben Robert Young.
Public works. (London) October-December,
1908. Describes some irrigation problems and the principal irrigation
surveys in the south-western districts, not including the Vaal river.

Irrigation in the Transvaal. Nature. v.73. p.563-564.
April 12, 1906. Considers problems in connection with this work,
deducing the run-off, flood discharge, and duty which appear to be
applicable in the design of storage-reservoirs, etc. Describing also
some existing government works.

Irrigation in the Union of South Africa. J.C. Hawkins. Engineering.
v.128. p.278-280. August 30, 1929. Special features
are enumerated of Irrigation and conservation of waters act; tabulation
of rainfall distribution; variations in flow of South African rivers,
storage capacity, irrigable lands, type of dams and actual or estimated
cost of irrigation schemes.

Irrigation in the Union: a discussion of policy in relation to the conservation
of water. F.E. Karthack. South African institution of engineers.
Journal. v.22. p.174-181. June 1924.
Discusses various schemes of irrigation and conservation of water.
South Africa is handicapped by its distance from rain-producing oceans
and is in portion of globe directly between trade and anti-trade winds,
position which at times adversely affects seasonal rains.

Irrigation, with special reference to the economic use of water. H.W. Turpin.
Journal of the department of agriculture of South Africa. v.11.
p.436-454. November 1925.

- Kalahari desert. Engineering. v.122. p.269. August 27, 1926.
- Kalahari irrigation scheme. Engineer. v.157. p.464. May 4, 1934.
Brief note on aerial photographic investigation of possibility of making water at Molopo, great river of Kalahari, turn back to its old course to flow into Orange river and to sea.
- Loans for irrigation from 1910 to 1917. International review of agricultural economics. v.9. p.834-836. October 1918.
- Loi établissant que les erven, les lots, les lotissements (allotments) et pâturages communs (commonage) appartenant aux terres de la Couronne et en certaines localités, puissent devenir terre riveraine sous certaines conditions. International yearbook of agricultural legislation. 1919. p.369-370. 1920.
- Loi n.26 portant amendement à la loi n.8 de 1912 sur l'irrigation et la conservation des eaux. International yearbook of agricultural legislation. 1916. p.585-586. 1917.
- Note on the economical use of water in irrigation and the measurement of stream and irrigation furrow discharges. Office of the director of irrigation. Cape Town, 19th July 1907. Presented to both houses of Parliament by command of His Excellency the governor, 1907. Cape Town, Cape times limited, government printers, 1907. 12p.
- Project d'irrigations dans la vallée du Niger. Barois. Academie d'agriculture de France. Comptes rendus. v.7. p.299-307. March 23, 1921.
- Report. Cape of Good Hope. Director of irrigation. 1904 - 1907. Capetown, 1906 - 1908.
- Report. South Africa. Department of irrigation. 1923 - date. Cape Town, 1925 - date.
- Report. South Africa. Select committee on irrigation schemes. 1928. 1st - 3rd. Cape Town, 1928.
- Report, 1899. Cape of Good Hope. Thebus irrigation commission. Cape Town, 1899. 68p.
- Report by the director of irrigation on his tour through the north-western districts. June-July, 1904. Presented to both houses of Parliament by command of His Excellency the governor. Cape of Good Hope. Director of irrigation. Cape Town, Cape times limited, government printers, 1904. 27p.
- Report of the geological and irrigation surveyor for the year 1892. Cape of Good Hope. Department of lands, mines, and agriculture. Cape Town, 1893. 20p.

Report of the Mooi river commission, with two appendices and one map.
Pretoria, Government printing and stationery office, 1906. 31p.

Report of the Select committee on irrigation projects. Cape Town, Cape times limited, government printers, 1920. 127p.

Report of the Select committee on irrigation settlements. Printed by order of the House of assembly. July 1906. Cape Town, Cape times limited, 1906. 70p.

Report of the Select committee on the irrigation bill. Printed by order of the House of assembly. May 1905. Cape Town, Cape times limited, 1905. 96p.

Report on a proposed irrigation project in the Clanwilliam and Van Rhynsdorp districts, by F.E. Kanthack ... director of irrigation. Presented to both houses of Parliament by command of His Excellency the governor, 1909. Cape Town, Cape times limited, government printers, 1909. 16p.

Report on the Calitz dorp irrigation scheme. Thos. Bain. Cape of Good Hope. Department of lands, mines and agriculture. Cape Town, 1893. 7p.

Report on the proposed Ashton canal irrigation project, by Mr. F.E. Kanthack, director of irrigation. Presented to both houses of Parliament by command of His Excellency the governor, 1907. Cape Town, Cape times limited, government printers, 1907. 58p.

Report on the reconnaissance of the basin of the Great Marico river with preliminary descriptions and approximate estimates of the most favorable irrigation projects practicable in it. R.J. Birt. Transvaal. Irrigation and water supply department. Pretoria, Printed at the Government printing and stationery office, 1906. 74p.

Reports on the Great Fish, Bushmans and Sundays rivers by Mr. R.W. Newman ... Irrigation branch ... 1905. Presented to both houses of Parliament by command of His Excellency the governor, 1906. Cape Town, Cape times limited, government printers, 1906. 20p.

Report on the reconnaissance of the Great Olifants river basin with preliminary descriptions and approximate estimates of the most favorable irrigation schemes practicable in it. F.A. Hurley. Transvaal. Irrigation and water supply department. Pretoria, Government printing and stationery office, 1907. 57p.

Report on the reconnaissance of the Vaal river with preliminary descriptions and approximate estimates of the most favourable irrigation schemes practicable from it. F.A. Hurley ... to which are attached a preliminary report and approximate estimate of the Christiana irrigation project. R.J. Birt ... and a note by the director of irrigation ... Pretoria, Government printing and stationery office, 1905. 76p.

Report on the working of Van Wyk's Vlei estate (with plan) by Mr. F.E. Kanthack, director of irrigation. Presented to both houses of Parliament by command of His Excellency the governor. 1907. Cape Town, Cape times limited, government printers, 1907. 28p.

Reports on various irrigation projects provided for in loan estimates for the year ending 31st March 1918. Cape Town, Union of South Africa, irrigation department, 1917. 47p.

Short history of irrigation development in South Africa. C.O. Linscott. South African irrigation magazine. v.3. p.50-56. June 1924.

Special report on colonial irrigation and hydrographic survey with statistics and map of the proposed hydrographical districts. Cape Town, Department of public works, 1899. 262p.

Suitable soil and water for irrigation purposes. J.P. van Zyl. Farming in South Africa. v.10. p.319. August 1935.

Training farmers for the irrigation settlements. H.W. Turpin. Farming in South Africa. v.11. p.71-72. February 1936.

Union irrigation works and projects - IV. South African journal of industries. v.2. p.663-672. July 1919. Upper Modder river conservation scheme; details of catchment area, dam and reservoir site; geological description of site.

Vaal river development scheme. Engineer. v.157. p.576-577. June 8, 1934. Schemes include construction of dam and diversion weir from which canal will carry water through wide natural neck in ridge separating Vaal river from Hartz river valley; history of scheme; design provides for concrete gravity dam with maximum height of 120 ft. above river bed.

Van Ryneveld's pass irrigation works. Engineer. v.141. p.54. January 8, 1926.

Van Rynevelds pass irrigation scheme. South African engineering. v.36. p.219-221. October 15, 1925. Completion of dam, canals, and other huge works near Graaff Reinet.

Van Rynevelds pass irrigation scheme. K.R. Shand. South African irrigation department magazine. v.3. p.15-20. March 1924. Scheme comprises concrete storage dam situated about one mile northwest of Graaff Reinet, 3 pick-up weirs and approximately 60 miles of canals. Length of crest level 1170 ft., crest width 10 ft., crest level, R.L. 2593, outlet level R.L. 2510, estimates quantity of concrete 130,000 cu.yd.

Views on irrigation and water supply. H.T. Burgers. South African institution of engineers. Journal. v.32. p.3-15, 61-62, 101-103, 142. August, October, December, 1933. February 1934. Analytical study of conditions and causes leading to more or less unsuccessful outcome of irrigation projects in South Africa.

Watering the Kalahari. E.H.L. Schwarz. World today. v.51. p.654-661.
May 1928.

SOUTH AMERICA.

- Accion del estado en el incremento de la superficie regada en el territorio nacional. Anales del Instituto de ingenieros de Chile. v.29.
p.501-511. September 1929. Government action in increase of irrigated area in national territory. General discussion of agricultural conditions in relation to irrigation in various countries of world, with particular reference to problem in Chile; conclusion is that government should promote irrigation in every possible way and should pay part of cost of irrigation works; definite sum should be allotted to irrigation works each year in general budget of nation.
- Acude de Quixadá. Relatorio apresentado a S. Ex. o Sr. conselheiro Antonio da Silva Prado, ministro e secretario d'estado dos negocios da agricultura, commercio e obras publicas, pelo engenheiro civil Aarão Leal de Carualho Reis, chefe da Comissão de exame das obras do referido acude.
Rio de Janeiro, Imprensa nacional, 1885. 147p.
- Agriculture and irrigation in Peru. C.W. Sutton. Pan American union.
Bulletin. v.61. p.642-648. July 1927.
- El agua de riego en Tucumán. J. von Saitcew. Sugar. v.29.
p.195-196. April 1927.
- Alumbramiento de aguas filtrantes subterraneeas en el valle de Santa Catalina, Departamento de la Libertad. J. Monge. Informaciones y memorias de la Sociedad de ingenieros del Peru. v.31. p.401-410.
June 1929. Tapping groundwater sources in Santo Catalina valley, Department of Libertad. Report on extended studies of valley of Monche river, which yields insufficient water during dry season; geology; rainfall and underground flow; course of groundwater flow; test wells; favorable zone between Menocucho and Cerro Blanco; remote probability of artesian flow at Quirihuac.
- Anales del primer Congreso de irrigación y colonización del norte, 19 de febrero - 24 de febrero de 1929, Lambayeque, Republica del Peru. Lima, Imprenta Torres Aguirre, 1929. 4v.
- As sêccas do norte. F. Saturnino Rodrigues de Brito. Recife, Imprensa industrial, 1913. 162p.
- Aspectos economico y social del problem del riego. G. Klinge.
Informaciones y memorias de las Sociedad de ingenieros del Peru. v.31. p.369-398. November 1929. Economic and social aspects of irrigation. Broad discussion, stressing Peruvian distinction between two Spanish works; irrigation embraces all works destined to bring water to lands that are to be cultivated; riego, or watering, is application of water to cultivation.

- Brazil to fight droughts. G.F. Paul. Professional engineer. v.13. p.19-20. December 1928. Brazilian government has started work on its vast irrigation development; it is building irrigation works in district where modern improvements must be all installed; of five great dams, largest is poco dos Paus which will contain 600,000 cu m. of masonry; clinker grinder plant at Fortaleza.
- Brick canal lining in Colombia; with cost data. E.M. Crawford. Engineering news record. v.114. p.567. April 18, 1935.
- Calculo de una compuerta de boca-tona para el canal "La Canada". Anales del instituto de ingenieros de Chile. v.28. p.7-14. January 1928. Calculation of intake sluice for the canal. Irrigation canal taps Teno river on Huaico ranch of H. Zanyartu; intake sluice or headgate revised to remedy condition of insufficient utilization of irrigation quota during season of low water in river.
- Canalizacion de la pampa central de la Republica Argentina. Angel Floro Costa. Montevideo, Imp. "Al libro ingles", 1897. 95p.
- Canals of the river Maipo. G. Fortescue. Pan American union. Bulletin. v.34. p.372-375. March 1912.
- Código y reglamento de aguas del Perú con leyes y decretos concordantes. Ed. oficial. Lima, Impr. del estado, 1902. 148p.
- Cooperative de riego en el valle del Rio Negro. C. Wauters. Ingenieria. v.33. p.398-402, 429-434. September, October 1929. Cooperative irrigation associations in Valley of Rio Negro. Association is standard practice in all irrigation zones; General Roca colony; founding of cooperatives; cooperative is not most appropriate form of association; official promise of drainage canal network; discussion of government aid.
- Costo de las obras de irrigacion. E. Torres Belon. Informaciones y memorias de las Sociedad de ingenieros del Peru. v.31. p.443-445. July 1929. Cost of irrigation works. Up to 1920, irrigation works in Peru were practically those built by Incas, abandoned during Colonial epoch, and partly reestablished during Republic; scientific study began 1904 and first new construction was completed in 1924; Imperial Pampa work cost total of 85 Peruvian pounds per hectare; costs in other countries range from 125 to 312.5 Peruvian pounds.
- Décret à construire les ouvrages nécessaires à l'irrigation des terres cultivables dans le nord-est du Brésil et à prendre d'autres dispositions. International yearbook of agriculture legislation. 1919. p.362-364. 1920.
- Estudios sobre la irrigacion de Jauja, hechos por orden de la Direccion de obras publicas & irrigacion. Lima, Impr. y librería de San Pedro, 1903. 48p.

Government aid to irrigation in Chile. C. Hoerning. Pan American
magazine. v.30. p.85-90. December 1919.

Hydrographic question in Peru. O.V. Salomón. Pan American union.
Bulletin. v.58. p.1006-1009. October 1924.

Informe sobre irrigacion de los Llanos del Tolima. J.A. Munyoz and A. Dupuy.
Anales de ingenieria. v.37. p.41-44. February 1929.
Report on irrigation of Tolima plains. Report of engineering committee;
topographic work; agricultural and geological study; meteorology;
hydrology measurements; project of construction work; cost estimates,
with total of \$2,639,947.43 for 13,400 hectares to be irrigated.

Informe sobre los estudios y proyectos referentes a la irrigacion de las
Llanuras del Tolima, presentados por L.A. Martinez Angulo yo.
Anales de ingenieria. v.35. p.729-741. December 1927.
Report on the studies and projects referring to the irrigation of the
Tolima plains, presented by L.A. Martinez Angulo & co. Communication
addressed to governor of department (state) of Tolima; preliminary
explanations; analyses work executed by contractor; advisability of
meteorological observations over long period; discusses details of
contract.

A irrigacao des margens do Rio S. Francisco. J.S. Da Fonseca Rodrigues.
Boletim do Instituto de engenharia. v.21. p.271-277. June 1935.
Irrigation in valley of San Francisco river in state of Pernambuco,
Brazil; extent of irrigable lands; abundance of water available;
natural power of waterfalls and winds; utilization of windmills; types
of windmills; power calculations.

Irrigacion conagua del subsuelo caso del bombeo electrico. V.M. Arana.
Informaciones y memorias de las Sociedad de ingenieros del Peru. v.31.
p.411-417. June 1929. Irrigation with groundwater -
electric pumping. Torrential flow of Peruvian coastal rivers during
part of summer and in autumn, and drought in spring and part of summer,
requires expensive engineering works to maintain steady water supply
for irrigation throughout year; electric pumping project is discussed
with cost estimates; advantageous with current at six centavos per kw.-hr.

Irrigación del valle de Ica. C.W. Sutton. Lima, Imp. americana, 1913.
198p.

Irrigacion en el antiguo Peru. A. Rega. Informaciones y memorias de la
Sociedad de ingenieros del Peru. v.30. p.325-331. August 1928.
Irrigation in ancient Peru. Notes on Peruvian history prior to
Spanish conquest, from engineering viewpoint; agricultural character
of indigenous population; utilization of soil; irrigation systems;
works at headwaters of streams; aqueducts, ditches and canals.

La irrigacion en el Perú. J.C. Quevado. Sugar. v.25. p.158-159,
216,275. March - May 1923.

- Irrigación en la República Argentina. F.A. Soldano. Buenos Aires, Impr.,
litografía y encuadernación de G. Kraft, 1908. lv.
- Las irrigaciones de la costa... Frederico Moreno. Publicado por el
Ministerio de fomento. Lima, Imp. del estado, 1900. 226p.
- Irrigation and public policy in Peru: with discussion. C.W. Sutton.
Pan American scientific congress. Proceedings, 1915. v.3.
p.840-854. 1917.
- Irrigation and public policy in Peru. Charles W. Sutton. Lima, 1921.
20p.
- Irrigation in Brazil. I.W. McConnell. Pan American union. Bulletin.
v.56. p.16-30. January 1923. Climatic conditions, topography,
rainfall records, storage and use of water, including dams and reservoirs,
etc.
- Irrigation in Mendoza, Argentina. S.T. Henry. Engineering news record.
v.85. p.353-355. August 19, 1920. Project involving irrigation
of 100,000 acres.
- Irrigation in Peru. International review of the science and practice of
agriculture. v.10. p.1080-1082. October 1919.
- Irrigation in Peru. O.V. Salomon. Pan American union. Bulletin. v.58.
p.31-35. January 1924.
- Irrigación en el Valle de Lerma. Carlos Wauters. Anales de la
Sociedad científica Argentina. v.66. p.117-145.
September 1908. Irrigation in the Lerma valley. A preliminary report on
irrigation problems in this district in Argentina.
- Irrigation projects in Peru. N.A.N. Cleven. Our history. v.30.
p.327-328. May 1929.
- Irrigations de la vallée du Rio Negro (Argentine) et le barrage de
Neuquén. Genie civil. v.78. p.353-354. April 23, 1921.
- Land economics and reclamation in Peru. C.W. Sutton. Journal of land
and public utilities economics. v.5. p.370-384.
November 1929.
- Ley no.3108. Contribucion directa y ley no.2816. Riego y sus decretos
reglamentarios. Cordoba, Imp. "Pereyra", 1922. 55p.
- Message and project of law relative to irrigation works. Argentina republic.
Ministerio de obras publicas. Buenos Aires, 1909. 20p.

- Normas para estudios de obras de regadio. A. Calvo. Anales del Instituto de ingenieros de Chile. v.28. p.599-605. October 1929. Standards for study of irrigation works. Factors to be considered in study of irrigation projects; agronomy and climatology of areas to be irrigated; topographic study; geology; meteorology; hydrology, metals of construction; transportation and roads; labor and living conditions.
- Sobre la practicabilidad y conveniencia de un dique de embalse en el Cadillal. E. Candiani, S.E. Barabino and B.A. Caraffa. Anales de la Sociedad cientifia Argentina. v.68. p.73-150. September 1909. Practicability and convenience of a storage dam in the Cadillal. Discusses the irrigation problems of Argentina.
- Present condition of irrigation in Argentina. C. Wauters. International engineering congress, 1915. Transactions. p.672-687. San Francisco, Cal., 1916.
- Preservation of forests and irrigation in Brazil. Address delivered before the sixteenth National irrigation congress, held at Albuquerque, New Mexico, U.S.A., by the Brazilian delegate L. Baeta Neves. Albuquerque, N.M., The author, 1908. 46p.
- Principles of irrigation engineering; with special reference to South America; based on a course of lectures delivered at the University of Cape Town. F.E. Kanthack. N.Y., Longmans, Green and co., 1924. 299p.
- Proyecto preliminar de irrigación de las pampas de Chancay. Carlos W. Sutton and Juan N. Portocarrera y C. Boletin del Cuerpo de ingenieros de Minas del Peru. no.94. 1918. 24p. Preliminary project for irrigating the Chancay Pampas. Involves irrigation of 15,000 hectares.
- Reclamation projects of the government of Peru. W. Manger. Pan American union. Bulletin v.64. p.439-446. May 1930.
- Riego en las grandes pampas argentinas. R.E. Ballesteros. Ingenieria internacional. v.18. p.176-177. April 1930. Irrigation on great Argentina pampas. Principal hydraulic projects authorized by Argentine government to accomplish irrigation of extensive areas of land.
- Rio Negro; la conquista del valle por el regadio; conferencia del Ing. Rodolfo E. Ballester en el Instituto popular de conferencias el 12 de julio de 1929. Buenos Aires, Tall. graf. de la "Guia expreso", 1929. 15p.
- State irrigation service; abstract. International review of agriculture. v.18. p.279-282. April 1927.
- Texto del contrato adreferendum que celebró el gobierno del Perú con Breitung and company limited de New York, sobre compra de bonos, construcción de obras de irrigación y colonización de terrenos. Lima, Imp. americana, 1915. 40p.

Valor de los terrenos regadíos y regables y del agua de regadio en la costa del Perú. Carlos W. Sutton. Lima, 1920. 988p.

Valor de la dotacion de agua de un regador del Canal de Maipo. A. Decombe and others. Anales del Instituto de ingenieros de Chile. v.31. p.94-119. February 1931. Value of water allotment of irrigation ditch from Maipo canal. Calculation of surface that may be irrigated by ditch from Maipo canal, especially on small properties; comparative data on irrigation projects in United States.

Zona de riego de rio Seco. F.A. Soldano. Buenos Aires, Impr. G. Kraft, 1909. 55p.

Zonas de regadio en Tucumán. Carlos Wauters. Rio de Janeiro, Imprensa nacional, 1908. 256p.

SOUTH CAROLINA.

Internal improvement of South Carolina, particularly adopted to the low country. Robert Mills. Columbia, State gazette office, 1922. 28p.

SOUTH DAKOTA.

Belle Fourche government irrigation project. Chicago and northwestern railway company. Chicago, Rand, McNally & co., 1915. 32p.

Belle Fourche irrigation works, South Dakota. Walter W. Patch. Engineering news. v.55. p.210-212. February 22, 1906. Illustrated account of this interesting work, including a concrete diverting dam, a large canal, a long high earth dam, a main and lateral canal system covering 90,000 acres, and a new township.

Belle Fourche irrigation project, South Dakota. Information compiled by United States Reclamation service, October 1, 1909. n.p., 1909. 26p.

Biennial report. South Dakota state engineer. 1st - date. 1905 - date. Pierre, S.D., 1906 - date.

Cereal investigations on the Belle Fourche experiment farm. Cecil Salmon. U.S. Department of agriculture. Department bulletin no.297. Washington, D.C., 1915. 43p.

Effect of fall irrigation on crop yields at Belle Fourche, S. Dak. F.D. Farrell and B. Aune. U.S. Department of agriculture. Department bulletin no.546. Washington, D.C., 1917. 13p.

Experiments with cereals on the Belle Fourche experiment farm, Newell, S. Dak. U.S. Department of agriculture. Department bulletin no.1037. Washington, D.C., 1922. 72p.

Irrigated crop rotations in western South Dakota. S.H. Hastings and B. Aune. U.S. Department of agriculture. Circular no.188. Washington, D.C., 1932. 46p.

- Irrigation in South Dakota. Samuel H. Lea. U.S. Department of agriculture. Office of experiment stations. Bulletin no.210. Washington, D.C., 1909. 60p.
- Irrigation in South Dakota. J.H. Shepard and E.C. Chilcott. South Dakota. Agricultural experiment station. Bulletin no.52. Brookings, S.D., 1897. 32p.
- Irrigation manual, containing useful information and tables, appertaining to irrigation by artesian waters, in the states of North and South Dakota, together with many tables, rules and items of miscellaneous information, of value to farmers and business men. W.P. Butler. Huron, S.D., Huronite printing house, 1892. 252p.
- Irrigation of agricultural lands. South Dakota statistics for state and counties. U.S. Bureau of the census. Washington, D.C., U.S. Government printing office, 1931. 9p.
- Irrigation possibilities. S.M. Hubbert. Dakota farmer. v.39. p.71. January 15, 1919.
- New developments in well boring and irrigation in eastern South Dakota, 1896. Nelson Horatio Darton. Washington, D.C., Government printing office, 1897. 561-615p. Extract from the 18th annual report of the U.S. Geological survey, 1896-97, pt.IV.
- Opportunities for farm ownership on the Belle Fourche project, South Dakota. Elwood Mead, commissioner, Bureau of reclamation. Washington, D.C., Government printing office, 1927. 24p.
- Report. South Dakota. Engineer of irrigation. 1890- date. Huron, S.D., 1890 - date.
- Suggestions to settlers on the Belle Fourche irrigation project. Beyer Aune. U.S. Department of agriculture. Bureau of plant industry. Circular no. 83. Washington, D.C., 1911. 14p.
- Summer fallow at Ardmore, S. Dak. O.R. Mathews and V. I. Clark. U.S. Department of agriculture. Circular no.213. Washington, D.C., 1932. 14p.
- Water penetration in the gumbo soils of the Belle Fourche reclamation project. O.R. Mathews. U.S. Department of agriculture. Department bulletin no.447. Washington, D.C., 1916. 12p.
- Work of the Belle Fourche reclamation project experiment station in 1912. U.S. Department of agriculture. Bureau of plant industry. B. Aune. Washington, D.C., Government printing office, 1913. 18p.

SOUTHERN STATES.

- South's flood control and irrigation activities. C.E. Williams. Manufacturers record. v.99. p.26-29. February 26, 1931.

SOUTHWESTERN STATES.

- Boulder canyon dam possibilities. E.F. Howe. Pacific rural press.
v.107. p.420. March 22, 1924.
- Colorado river controversy. W.R. Wood. California cultivator. v.66.
p.303. March 13, 1926.
- Colorado river problem. W. Kelly. American society of civil engineer.
Transactions. v.88. p.306-437. 1925.
- Colorado river project. Agricultural review. v.15. p.12.
April 1922.
- Colorado water for farms and cities. A.L. Spellmeyer. California
cultivator. v.66. p.155. February 6, 1926.
- Cotton growing under irrigation in the southwest. P.L. Edwards.
Overland monthly. n.s., v.69. p.501-504. June 1917.
- Development of the lower Colorado. E.C. LaRue. California cultivator.
v.57. p.649. December 24, 1921.
- Drama of the Colorado; the Swing-Johnson bill providing for the Boulder
dam and the all-American canal. R.L. Duffus. New republic. v.42.
p.147-149. April 1, 1925.
- Future of the southwest; reply to R.L. Duffus. M. Austin.
New republic. v.42. p.186. April 8, 1925.
- Great southwest. Century. v.64. p.361-373. July 1902.
- Harnessing the Colorado. C.I. Hackett. Woman citizen. n.s., v.10.
p.8-9. September 1925.
- Inexhaustible power and water for southwest. R.E. Hodges. Pacific rural
press. v.102. p.60. July 16, 1921.
- Irrigation farming in the southwest. D.A. Willey. Scientific american.
v.84. p.53-54. January 26, 1901.
- Irrigation in the southwest. H.D. Barrows. Nation. v.77.
p.358-359. November 5, 1903.
- Irrigation in the southwest. W.E. Stockwell. Professional engineer.
v.12. p.13-14. March 1927.
- Irrigation requirements of the arid and semi-arid lands of the southwest.
S. Fortier and A.A. Young. U.S. Department of agriculture.
Technical bulletin no.185. Washington, D.C., 1930. 68p.

- Making artificial rain in the southwest; portable pipes and sprinklers.
G.K. Spencer. Travel. v.64. p.38 December 1934.
- New deal for irrigation. H.F. Kenyon. California cultivator. v.81.
p.157. March 31, 1934.
- Power development on the Colorado river and its relation to irrigation and
flood control. O.C. Merrill. American institute of electrical
engineers. Journal. v.41. p.500-507. July 1922.
- Problem of the Colorado river. W.F. Durand. Mechanical engineering.
v.47. p.79-84. February 1925.
- Reclaiming the arid southwest. R.M. Barker. Forum. v.33.
p.363-371. May 1902.
- Riotous Colorado. G.F. Stratton. Country gentleman. v.91.
p.12-13+ August 1926.
- Something new in the southwest. Harpers weekly. v.46. p.494-495.
April 19, 1902.
- Story of the Salt river valley. H. Welch. Agricultural review. v.16.
p.11.. May 1923.
- To harness the Colorado river. Agricultural review. v.19. p.2.
May 1926.
- When Boulder dam is built. E.A. Vandeventer. Sunset. v.56.
p.24-27. February 1926.
- Winning the west - by going east. J.H. Yetter. California cultivator.
v.67. p.469. October 30, 1926.

SPAIN.

- Alloz irrigation and hydro-electric scheme. Engineering. v.136.
p.708. December 29, 1933.
- Bases del concurso de anteproyectos para la construcción de cinco poblados
en la zona regable del canal del Guadalquivir. Spain. Delegación de
obras de puesta en riego. Sevilla, 1932. 18p. mimeographed.
- Bases del concurso de anteproyectos para la construcción de ocho poblados
en la zona regable del canal del valle inferior del Guadalquivir.
Spain. Delegación de obras de puesta en riego. Sevilla, 1932.
18p mimeographed.
- Canal de Castilla irrigation schemes. C. Juanes. Engineer.
v.141. p.447. April 16, 1926.

- Catálogo de las exposición bibliográfica y de recuerdos históricos de los riegos en el reino de Valencia celebrada por la Sociedad "Lo Rat penat" con motivo del III congreso nacional de riegos, 1921.
Valencia, Imprenta Hijo F. Vives Mora, 1923. 63p.
- Conquista del Ebro. Manual Lorenzo Pardo. Zaragoza, Editorial y fotograbado Heraldo de Aragón, 1932. 313p.
- Electric irrigation plant at Los Almadenes, Spain. H. Desbarres.
Electrical world. v.82. p.1130. December 1, 1923.
- Estudio acerca de los riegos del Segura y su problema juridico.
Salvador Martinez-Moya Crespo. Murcia, Tip. de J.A. Jiménez, 1917.
71p.
- Fórmula de la agricultura española. D. Joaquín Costa y Martínez.
Madrid, "Biblioteca J. Costa", 1911-12. 2v.
- Irrigation in southern Europe: being the report of a tour of inspection of the irrigation works of France, Spain, and Italy, undertaken in 1867-68 for the government of India. C.C. Scott-Moncrieff. London, E.& F.N. Spon, 1868. 371p.
- Irrigation in Spain. Times trade & engineering supplement. v.13. p.466. January 19, 1924. Plans for regulation of the Segura river, involving extensive afforestation, and provision of four reservoirs, having total storage capacity exceeding 66,000 million gal.
- Irrigation in Spain. Canadian engineer. v.49. p.215. August 11, 1925.
- Irrigation in Spain. Distribution systems, methods and appliances. J.C. Stevens. International engineering congress, 1915. p.643-656. Los Angeles, 1916.
- Irrigation in Spain: a new type of institution. E. Ferrari. International review of agricultural economics. n.s., v.4. p.397-414. July 1926.
- Irrigation in Spain. Regulations controlling the use of water, metering water for irrigation and methods of charging. J.C. Stevens. International engineering congress, 1915. Transactions. p.657-671. Los Angeles, 1916.
- Irrigation, ses conditions géographiques, ses modes et son organisation dans la Péninsule Ibérique et dans l'Afrique du nord. Jean Brunhes. Paris, C. Naud, 1902. 579p.

Irrigation schemes in southeastern Spain. Water and water engineering.

v.29. p.54-56. February 21, 1927. Investigation led to conclusion that it would be best to regulate course of Segura, only large river in province of Murcia, and thus ensure its carrying ample quantity of water, even during dry season; for this purpose provision of large reservoirs in higher regions of river was planned and also extensive afforestation of neighboring valleys; water is distributed from stations by means of canals leading to land to be irrigated; 5 pumping stations contains 12 Sulzer centrifugal pumps absorbing total of 5,000 hp.

Irrigation system in Spain; abstract. International review of agriculture.

v.19. p.348-351. April 1928.

Irrigazioni e laghi artificiali della Spagna. Relazione degli ingegneri Giuseppe Zoppi e Giacomo Torricelli ... Firenze, Tipografia di G. Barbera, 1888. 305p.

Medios que se utilizan para suministrar el riego a las tierras y distribución de los cultivos en la zona regable. Resumen hecho por la junta consultiva agronómica de las memorias de 1916... Madrid, Impr. de los hijos de M.G. Hernández, 1918. 2v.

Memoria relativa a la distribución de las aguas del río Guadalquivir para el riego de su vega, por los señores Buckley y Brown, ingenieros ingleses. (Tr. al español por el intérprete D. Juan Martínez de Leyva) Madrid, Establecimiento tipográfico hijos de J.A. Garcia, 1906. 52p.

Memorias. Datos fundamentales, Power world conference, Barcelona. Mancomunidad hidrográfica del Ebro. Zaragoza, Industrias gráficas Uriarte, 1929. 208p.

Nueva política hidráulica, la Confederación del Ebro. Manuel Lorenzo Pardo. Madrid, Compañía ibero - americana de publicaciones, 1930. 214p.

Neue wasserwirtschaftsplan Spaniens. W. Vieser. Wasserwirtschaft und technik. v.2. p.211-215, 242-244. July 5, 25, 1935. Review of irrigation water resources of Spain and outline of 25 yr. plan for construction of 382 projects for irrigation of 1,207,000 hectares in eastern provinces; cost estimates.

Obras de riego en los Estados Unidos de América. D. José Nicolau y D. Narrisó Puig de la Bellacasa ... Madrid, Est. tip. de V. Tordesillas, 1908. 285p.

Obras hidráulicas en la Cuenca del Ebro. N. Liria Almor and others. Revista de obras publicas. v.79. p.369-372, 389-393, 429-434. September 15, October 1, November 1, 1931. Hydraulic works of Ebro basin. Plan for utilization of Jalon river, by N. Liria Almor. Reservoirs and irrigation of upper Aragon, by F. Checa. Navigability of Ebro river and its outer ports, by J.C. Lopez.

- Obras hidráulicas de la cuenca del Ebro. F. Checa. Revista de obras publicas. v.79. p.160-162. April 15, 1931.
Hydraulic works of Ebro basin. Notes on Gallipuen reservoir for impounding winter water of Guadalopillo river, for irrigation use in lower valley; concrete masonry dam 180 m. long on crest and 49 m. at river bed; total height 38 m. or 31 m. above river bed; 40,000 cu.m. of concrete blocks; open spillway 50 m. long, with spillway level 2 m. below crest of dam; storage capacity of reservoir is 4 million cu m.
- Obras hidráulicas de la cuenca del Ebro. L DeFuentes Lopez. Revista de obras publicas. v.79. p.189-192. May 15, 1931.
Hydraulic works of Ebro basin. Barasona reservoir, built to regulate supply for Aragon and Catalunya canal, which derives from Esera river 2 1/2 km. downstream; gravity dam of triangular section, calculated by Pigeaud method and built of concrete blocks; dam 55 m. high, 62 m. long and 4 m. wide on crest; impounds 71 million cu. ft.; total cost of project 12,500,000 pesetas; in addition to use for irrigation, hydroelectric plant is projected.
- Obras hidráulicas de la cuenca del Ebro. E. Melénde. Revista de obras publicas. v.79. p.168-173. May 1, 1931. Hydraulic works of Ebro basin. Cueva foradada reservoir; gravity, Levy profile, 45 m. high above foundation level; circular arch 100 m. radius; length on crest 147 m.; storage capacity 28,707,232 cu.m.; watershed area of 624 sq. km.; spillway 113.30 m. long, to discharge 600 cu.m. per sec.; purpose of reservoir is to provide irrigation supply for 6,000 to 10,000 hectares of land; construction notes and cost data.
- Obras hidráulicas de la cuenca del Ebro. M.L. Pardo. Revista de obras publicas. v.79. p.135-137. April 1, 1931.
Hydraulic works of the Ebro basin. Regional map of basin; indexed locality map; map showing work constructed and under construction, projects being studied, irrigated zone, zone in preparation for irrigation, and projected irrigation zone.
- Obras hidráulicas de la cuenca del Ebro. M.L. Pardo and J. Gonzalez Lacasa. Revista de obras publicas. v.79. p.273-275, 297-302, 349-353. July 15, August 1, September 1, 1931. Hydraulic works of Ebro basin. Valbornedo reservoir. Regulation and utilization of rivers of La Rioja region. Regulation of supply.
- Obras hidráulicas de la cuenca del Ebro. J. Del Yerro and others. Revista de obras publicas. v.79. p.212-216, 237-242, 249-253. June 1, 15, July 1, 1931. Hydraulic works of Ebro basin. Santa Maria de Belsué, Arguis, and Las Navas reservoirs. Imperial canal in Aragon. San Lorenzo reservoir.
- Ordenación y prosperidad de España (el plan nacional de obras hidráulicas del ingeniero Lorenzo Pardo) Pedro Gonzalez-Blanco. Madrid, Imprenta "Sáez hermanos," 1934. 202p.

Plan de auxilios á la obras hidráulicas con destino á riegos. Navarre (Province) Spain. Dirección de agricultura. Pamplona, Impr. provincial á cargo de Mariano Falces, 1923. 26p.

Plan de obras de puesta en riego en la zona regable del canal del Guadalmellato. Memoria. Spain. Delegación de obras de puesta en riego. Sevilla, 1932. 39p mimeographed.

Plan de obras de puesta en riego en la zona regable del canal del valle inferior del Guadalquivir. Spain. Delegacion de obras de puesta en riego. Sevilla, 1932. 39p. mimeographed.

Plan de obras de riego de una zona de 95,000 hectáreas con 40 por 100 de cultivo intenso en el región inferior del Guadalquivir redactado por la Comisión especial nombrada para su estudio. Ingeniero jefe: D. Enrique Martinez y Ruiz de Azúa. Madrid, Establecimiento topográfico hijos de J.A. García, 1907. 245p.

Politica hidráulica (misión social de los riegos en España.) Joaquín Costa Martínez. Madrid, "Biblioteca J. Costa", 1911. 353p.

Rapport sur l'utilisation des eaux des barrages - reservoirs. Mission algérienne en Espagne. Alger, 1934. 132p.

Regadio en España. Resumen hecho por la Junta consultiva agronómica de las memorias sobre riegos remitidas por los ingenieros del Servicio agronomico provincial. Madrid, Imprenta de los hijos de M.G. Hernández, 1904. 277p.

Reinforced concrete siphon of Albelda on irrigation system of Aragon and Catalogne (Spain). B.A. Etcheverry. California journal of technology. v.14. p.74. December 1909. Illustrated general description of the conduit, and of the method of construction.

Siphon en beton armé du Rio Sosa. Henry Martin. Génie civil. v.50. p.329-334. March 16, 1907. Reinforced concrete siphon of the Rio Sosa. Siphon system for supplying 370 cubic feet of water a second for irrigation projects in Spain.

Spain: the Ebro irrigation confederation; abstract. International review of agriculture. v.19. p.606-608. July 1928.

Spain turns to irrigation for greater productivity. Dun's international review. v.50. p.58-60. October 1927.

Spanish national irrigation plan. E. Martinez de Bujanda. International review of agriculture. v.25. p.237E - 243E. June 1934.

Tratado de aguas y riegos. Andrés Llauradó. 2d edition. Madrid, Impr. de Moreno y Rojas, 1884. 2v.

Voyage en Espagne, dans les années 1816, 1817, 1818, 1819, ou Recherches sur les arrosages, sur les lois et coutumes qui les régissent; sur les lois domaniales et municipales, considérées comme un puissant moyen de perfectionner l'agriculture française. Jaubert de Passa. Paris, Chez Madame Husard, 1823. 2v.

Zona regable del canal del Guadalmellato. Varias disposiciones de interés para los propietarios. Spain Delegacion de obras de puesta en riego. Sevilla, 1933. 22p. mimeographed.

Zona regable del valle inferior del Guadalquivir. Varias disposiciones de interés para los propietarios. Spain. Delegación de obras de puesta en riego. Sevilla, 1933. 22p. mimeographed.

SWEDEN.

Dikning och andra atgärder för lönande skördar. A.K. Eckerbon. Helsingborg, Helsingborgs typografiska anstalt, 1915. 56p.
Sweden, Emigration - sutredningen. Bilaga. no.16.

SWITZERLAND.

Ueber die bewässerungskanäle in den Walliser - Alpen. L. Blotnitzki. Bern, Druck von Rieder & Simmen, 1871. 46p.

SYRIA.

L'hydraulique agricole dans la vallée de l'Oronte. V. Frolov. Société des ingénieurs civils de France. Bulletin no.84. p.1811-1829. November 1931.

TEXAS.

Alfalfa production under irrigation in western Texas. J.J. Bayles. Texas. Agricultural experiment station. Bulletin no.472. College Station, Tex., 1932. 28p.

Annual report and financial statement of chief engineer and general superintendent. Imperial irrigation district. 1927 - date. Imperial, Cal., 1928 - date.

Annual report of the Elephant Butte district. Rio Grande irrigation project. 1922 - date. n.p., 1923 - date.

Big returns from irrigation in lower valley of the Rio Grande. W.D. Hornaday. Manufacturers record. v.73. p.61-62. May 23, 1918.
Results from reclaimed land.

Brick lining used for irrigation canal in Texas. W.I. Gilson. Engineering news record. v.113. p.246-247. August 23, 1934.

Concerning Elephant Butte dam. Irrigation age. v.31.
p.132. July 1916.

Condensed report of the proceedings of the State irrigation convention, held at San Antonio, Texas, December 4 - 8, 1894. Texas state irrigation convention. San Antonio, 1895. 129p.

Construction methods on the Medina valley irrigation project, Texas. C.H. Kearny. Engineering record. v.66. p.632-634. December 7, 1912. Illustrated account of rapid progress in building two concrete dams and extensive flumes.

Economic limits of cost of water for irrigation, Pecos county water improvement no. 1, Fort Stockton, Texas. R.P. Teele ... and Paul A. Ewing ... A preliminary report. Washington, D.C., 1926. 23p. mimeographed. U.S. Department of agriculture. Bureaus of agricultural economics and public roads.

Economic limits of cost of water for irrigation; Rio Grande project, Texas. R.P. Teele and Paul A. Ewing. A preliminary report ... Washington, D.C., 1925. 21p. mimeographed. U.S. Department of agriculture. Bureaus of agricultural economics and public roads.

El Paso herald, National irrigation congress ed., September 28, 1908. El Paso herald, El Paso, Tex. El Paso, Tex., 1908. 48p.

Equitable use of the waters of the Rio Grande below Fort Quitman, Tex. Hearings before the Committee on foreign affairs, House of representatives, sixty-eighth congress, first session, on H.R. 8371. Washington, D.C., Government printing office, 1924. 45p.

Example of irrigation in Texas. H.V. Watts. Manufacturers record. v.57. p.65. June 2, 1910. Describes the irrigation system of San Benito.

Extending time of construction payments Rio Grande federal irrigation project, New Mexico - Texas. Hearing before the Committee on irrigation and reclamation, United States senate, 70th congress, 1st session on S. 4167, a bill extending the time of construction payments on the Rio Grande federal irrigation project, New Mexico - Texas. April 26, 1928. Washington, D.C., U.S. Government printing office, 1928. 44p.

Drainage ditches for Rio Grande irrigation. L.M. Lawson. Engineering news. v.89. p.574-575. October 5, 1922.

Drainage works of the Rio Grande irrigation project. J.L. Burkholder. Engineering news record. v.83. p.543-549. September 18, 1919.

Growing cotton under irrigation in the Wichita valley of Texas. C.H. McDowell. Texas. Agricultural experiment station. Bulletin no.494. College Station, Tex., 1934. 21p.

Hearings upon the bill H.R. 17939. Committee on foreign affairs, House of
representatives ... January 24, 1905. Washington, D.C.,
Government printing office, 1905. 12p.

Historia del riego del arroz en el S.O. de Louisiana y en el S.E. de Texas.
Revista de agricultura. suplement p.85-86. February 1932.

How natural gas engines pump irrigation water in Texas. M.F. Peters.
Gas age. v.77. p.459-461. May 2, 1936.

Huge irrigation project in Texas embodies many unique features. A. Callan.
Manufacturers record. v.98. p.48-50. September 4, 1930.

Impounding of storm waters. N.H. Lingenfelter. Agricultural review.
v.18. p.2+ October 1925.

Investigation of water duty on 200-acre suburban tract. E.P. Arneson.
Engineering news. v.95. p.885-886. November 26, 1925.

Irrigation and power combined by Texas improvement district. Engineering
news record. v.109. p.153-157. August 11, 1932.

Irrigation canals, Texas; unit prices. Engineering news record. v.116.
p.268. February 13, 1936.

Irrigation development of Rio Grande valley, and its related citrus industry.
J.B. Lippincott. California citrograph. v.16. p.418+
July 1931.

Irrigation in lower Rio Grande Valley of Texas. E.J. Foscoe.
Geographical review. v.23. p.457-463. July 1933.
Non-technical review of recent development, with special reference to
its international aspects; statistical data.

Irrigation in Texas. J.C. Nagle. U.S. Department of agriculture. Office
of experiment stations. Bulletin no.222. Washington, D.C., 1910.
92p.

Irrigation investigations in Texas. R.G. Hemphill. Agricultural engineering.
v.7. p.56. February 1926.

Irrigation of agricultural lands. Texas statistics for state and counties.
U.S. Bureau of the census. Washington, D.C., Government printing office,
1932. 13p.

Irrigation of rice on the coastal prairies of Texas. C.G. Haskell.
Texas. Department of agriculture. Bulletin no.43. Austin, Tex.,
1912. p.88-116.

Irrigation project on a normally dry river, Presidio county, Texas.
W.W. Colpitto. Engineering news. v.66. p.243-245. August 31, 1911.
Illustrated description of an attempt to conserve the flood waters of a
dry stream.

- Irrigation systems in Texas. William Ferguson Hutson. Washington, D.C.,
Government printing office, 1898. 68p. U.S. Geological
survey. Water supply and irrigation paper no.13.
- Irrigation systems of Texas. Thomas U. Taylor. Washington, D.C.,
Government printing office, 1902. 137p. U.S. Geological
survey. Water supply and irrigation paper no.71.
- Irrigation with treated sewage in western Texas. H.N. Roberts and D.L. Jones.
Engineering news record. v.97. p.1026-1028.
December 23, 1926.
- Old irrigation canal replaced by precast concrete pipe. H.H. Kidder.
Engineering news record. v.107. p.222-223. August 6, 1931.
- Pumps change plains to farms. W.D. Hornaday. American thresherman.
v.24. p.10. September 1921.
- Rapid and accurate mapping in semi-arid regions of Texas. J.E. Goddard.
Engineering news record. v.107. p.210-212. August 6, 1931.
- Rapid construction on Medina valley irrigation project in Texas. Terrell
Bartlett. Engineering news. v.70. p.508-513. September 11,
1913. Mainly an illustrated account of the construction of a concrete
dam of large size in the short time of one year.
- Report. Texas. Board of water engineers. 1st - date. 1913 - date.
Austin, Texas, 1915 - date.
- Report from Beeville station: soils, climate, water supply, irrigation
equipment. J.H. Connell and S.A. McHenry. Texas. Agricultural
experiment station. Bulletin no.43. College Station, Tex., 1897.
927-958p.
- Report on the irrigation works of the Rio Grande dam and irrigation company,
in the Rio Grande valley, from Engle, New Mexico, to Fort Quitman, Texas.
J.L. Campbell. El Paso, Tex., 1894. 65p.
- Rio Grande being made to irrigate larger area in Maverick county.
R.G. Skerrett. Compressed air magazine. v.36. p.3610-3614. October
1931.
- Rio Grande goes to work. C.L. Dowell. Electric journal. v.29.
p.499-502. November 1932.
- Rio Grande irrigation project. Newton Forest. Scientific american supplement.
v.70. p.97, 104-105. August 13, 1910. Illustrated
description of interesting features, including one of the largest
reservoirs in the world.
- San Benito, Texas, irrigation district. Irrigation age. v.31.
p.171. September 1916.

- Sewage irrigation in Texas. E.H. Goodwin. Public works. v.66.
p.23-24. March 1935.
- Six million dollars for irrigation. Albert Phenis. Manufacturers record.
v.61. p.51-54. March 21, 1912.
Illustrated account of an interesting project in progress in the Medina
river valley in the vicinity of San Antonio, Texas.
- \$6,000,000 irrigation and power project in Texas. Manufacturers record.
v.101. p.16-18. June 23, 1932. Project
constructed near Eagle Pass by Maverick county water control and
improvement district no.1; 66,000 acres will be irrigated by gravity
while 25,000 acres can be irrigated by low lift pumping; hydroelectric
generating plan has capacity of 13,500 hp.
- Spoilers of the magic valley. J.C. Marquis. Country gentleman.
v.86. p.10+ July 30, 1921.
- Status of farming in the lower Rio Grande irrigated district of Texas.
R.E. Willard. U.S. Department of agriculture. Department bulletin
no.665. Washington, D.C., 1918. 24p.
- Structures on a Texas water service district; city supply and irrigation system
at Wichita Falls. J.L. Lochridge. Engineering news. v.97.
p.748-751. November 4, 1926.
- Texas' largest irrigation project. A.S. Fry. Manufacturers record.
v.100. p.24-26. July 16, 1931.
- \$3,500,000 for irrigation. M.D. Henderson. Manufacturers record. v.62.
p.51. November 14, 1912. Information concerning a
mammoth Pearson project on the Texas plains.
- Under the ditch in Texas. E. Hough. Outing. v.53.
p.604-616. February 1909.
- Water resources of Texas and their utilization. W.L. Rockwell ...
Irrigation of rice on the coastal prairies of Texas. C.G. Haskell.
Austin, A.C. Baldwin and sons, state printers, 1915. 116p.
Texas. Department of agriculture. Bulletin no.43.
- Water supply and irrigation works, Wichita Falls, Tex. A.S. Fry.
Engineering news. v.90. p.1080-1081. June 21, 1923.
- Wichita dam; completion of another big western irrigation project.
Scientific american. v.131. p.30. July 1924.

TURKESTAN.

- Bewässerungs - wirtschafts in Turan und ihre anwendung in der landeskultur.
Walter Busse. Jena, G. Fischer, 1915. 326p.
Veröffent - lichungen des Reichs - kolonial - amts. no.8.

- Design of reclamation projects. E.A. Sharrov. Vestnik irrigatziyi. nos.7 and 8. p.40-56, 54-69. July, August 1929. General principles and modern Russian practice, illustrated by methods of organization and modernization of primitive irrigation in valley of river Zeravshan in Russian central Asia, comprising irrigable area of almost 500,000 hectares. In Russian.
- Irrigation in Turkestan. A.P. Davis. Civil engineering. v.2. p.1-5. January 1932.
- Irrigation in Turkestan. Arthur P. Davis. Engineering news. v.66. p.722. December 14, 1911. Abstract of a paper read at the National irrigation congress. Information concerning the important systems.
- Irrigation on the Royal Murgab estate, Turkestan, Russia. Arthur P. Davis. Engineering news. v.67. p.621-624. April 4, 1912. Illustrated description of this property and the different irrigation projects built.
- Rational utilization of waters of rivers Charin, Chillik, Tyun, Teckess, and Sari-jass for irrigation. N. Chubarov and S. Semyonov. Vestnik irrigatziyi. no.12. p.88-104. December 1929. Project for irrigation of 532,000 hectares of rice land in Illi river valley between Alma-Atta and Chinese border; authors propose diversion of river flows across water divide from Tyun to Charin. In Russian.
- Reviving Samarkand with a dash of water. Literary digest. v.51. p.737. October 2, 1915.
- Travaux hydrotechniques en Turkestan. Russian. Gidrologicheskii. St. Petersburg, Impr. "Iakor", 1908. 23p.
- Water resources and irrigation in the Kirghiz Autonomous republic. B.A. Pishkin. Vestnik irrigatziyi. v.7. p.67-73. March 1929. General information on one of Central Asiatic units of U.S.S.R. bordering on Chinese Turkestan, and occupying area as large as Italy in basin of Lake Issit-Kul; present condition of irrigation and hydroelectric development and prospects for future. In Russian.

TURKEY.

- Baghdad railway. Edinburgh review. v.206. p.379-392. October 1907.
- Irrigasjonsanlegg for 500 millioner kr. 1 tyrkiet. Teknisk ukeblad. v.76. p.302. July 19, 1929. Irrigation product in Turkey costing 500 million crowns. Brief outline of plan to irrigate Asia Minor at cost of 250 million Turkish pounds over period of 22 years.

Irrigation en Turquie. Louis Godard. Genie civil. v.56.
p.282-285. February 12, 1910. Irrigation in Turkey.
Review of the irrigation projects of the Turkish government.

Irrigation in Mesopotamia. L. Godard. Engineering magazine. v.38.
p.747-751. February 1910.

Note sur l'irrigation de la plaine de Konia. M. Godard. Annales des
ponts et chaussees. v.41. 8th ser. p.177-188. 1909.
Irrigation of the plain of Konia, Asia Minor. Reviews the projects of the
Turkish government.

Reclaiming the garden of Eden. L.R. Freeman. Independent. v.75.
p.427-434. August 21, 1913.

Shall the east be re-born? L. March-Phillipps. Catholic world. v.94.
p.442-454. January 1912.

UNITED STATES

Act appropriating the receipts from the sale and disposal of public lands
in certain states and territories to the construction of irrigation
works for the reclamation of arid lands and subsequent acts pertaining
thereto. Washington, D.C., Government printing office, 1911. 11p.

Actual quantities of water used on irrigation projects of U.S. Reclamation
service. E.A. Moritz. Engineering and contracting. v.51.
p.29-31. January 8, 1919.

Adding to farm profits by irrigation. C.F. Carter. Current history
magazine. v.18. p.479-484. June 1923.

Administrative control of underground water; physical and legal aspects.
H. Conkling. American society of civil engineers. Transactions.
v.102. p.753-837. 1937.

Administrative finality; decision in Ohio valley water co. vs. Ben Avon
Borough. S.C. Wiel. Harvard law review. v.38.
p.447-481. February 1925.

After the great drouth. W.V. Woehlke. Sunset. v.53.
p.41-43. December 1924.

Agriculture, electricity and irrigation: electrically driven pump.
P.A. Bates. Scientific american. v.108. p.472+ May 24, 1913.

American irrigation during the past 23 years. Engineering and contracting.
v.60. p.1243-1247. December 12, 1923.

American irrigation policies. David Weeks. N.Y., American council,
Institute of Pacific relations, 1933. 26p.

Application of reclamation law to irrigation districts ... Report. (To
accompany H.R. 4954. Washington, D.C., Government printing
office, 1917. 22p. U.S. 65th congress. House. Report no.93.

- Arid lands made fruitful by work of Bureau of reclamation. P.M. Sheriger.
Compressed air magazine. v.36. p.3394-3398.
February 1931. Account of construction work Minidoka project in
Idaho covering 200 sq.mi.
- Arid public lands, their reclamation, management and disposal. Elwood Mead.
American society of irrigation engineers. v.2. p.95-138.
January 1897. The inefficiency of the existing public land
system is shown and the evils resulting from it. Discussion follows.
- Beginnings of irrigation in the United States. R.H. Hess. Journal of
political economy. v.20. p.807-833. October 1922.
- Beiträge zur kenntnis der wasserwirtschaft in den vereinigten staaten von
Amerika. Bericht über eine studienreise durch die vereinigten staaten von
Amerika in sommer 1904, erstattet von regierungs- und baurat Krüger.
Berlin, Deutsche landwirtschafts- gesellschaft, 1906. 60p.
Arbeiten der Deutschen landwirtschafts - gesellschaft ... hft. 119.
- Better business. Better farming. Better living. Hints from a practical
farmer to the settlers on the projects of the United States Reclamation
service. I.D. O'Donnell. Washington, D.C., Government printing
office, 1918. 137p.
- Big-scale irrigation. F.W. Parsons. Saturday evening post.
v.193. p.30-32. December 4, 1920.
- Bill to promote reclamation of arid and swamp lands. Irrigation age.
v.32. p.59-60. February 1917.
- Border method of irrigation. S. Fortier. U.S. Department of
agriculture. Farmers' bulletin no.1243. Washington, D.C., 1927.
35p.
- Boulder canyon storage and power favored by Dr. Mead. Engineering news.
v.94. p.283. February 12, 1925.
- Briefs on Indian irrigation and Indian forests. Letter from Frederick H. Abbott,
secretary of the Board of Indian commissioners, Department of the interior,
to the chairman of the Senate Committee on Indian affairs, transmitting
all communications and certain briefs, together with proposed amendments
to existing law, relative to Indian irrigation and Indian forests.
Washington, D.C., Government printing office, 1914. 69p.
- Bring the landless man to the manless land. St. Nicholas.
v.43. p.54-56. November 1915.
- Call of the west. C.J. Blanchard. National geographic magazine. v.20.
p.403-437. May 1909.
- Canal that grows crops in a barren country. Scientific american. v.129.
p.33. July 1923.

- Cancellation of segregations of public lands under the Carey act ... House of representatives, Committee on irrigation of arid lands. Washington, D.C., Government printing office, 1914. 35p.
- Cashing in on natural wealth. M.F. Cunningham. Harpers weekly. v.61. p.369. October 16, 1915.
- Community pumps for irrigation. J.T. Bartlett. Scientific american. v.122. p.472. April 24, 1920.
- Conditions and proposed legislation. U.S. industrial commission. Final report. v.19. p.1071-1084.
- Conflict over formal agreements delays reclamation work. Engineering news record. v.112. p.293. March 1, 1934.
- Convention between the United States and Mexico. Equitable distribution of the waters of the Rio Grande. Signed at Washington, May 21, 1906. Washington, D.C., Government printing office, 1919. 7p.
- Correct accounting principles in connection with the payment of construction costs on federal irrigation projects. L.H. Hauter. Journal of farm economics. v.14. p.687-690. October 1932.
- Courage of the west. W.V. Woehlke. Sunset. v.47. p.22-26. December 1921.
- Debate: resolved, that arid- and swamp-land reclamation can be undertaken more advantageously by government activity than by private enterprise. W.R. King, and C.R. Graves. Irrigation age. v.32. p.54-58, 70-76. February - March 1917.
- Democratizing the desert. C.B. Sherman. Survey. v.46. p.593-594. August 16, 1921.
- Design of monolithic concrete siphons simplified by use of diagrams; U.S. Bureau of reclamation irrigation canals. J.J. Doland. Engineering news record. v.104. p.1047-1052. June 26, 1930.
- Desirability of irrigation. F.H. Newell. U.S. Smithsonian institution. Report, 1901. Washington, D.C., 1902. p.407-423.
- Discussion of projects from the thirteenth annual report together with detail estimates of work to be accomplished with the money recommended for appropriation for the fiscal year 1916 compared with expenditures during the fiscal year 1914. U.S. Bureau of reclamation. Washington, D.C., Government printing office, 1915. 500p.
- Distribution and utilization of flood waters on Navajo lands. M.E. Musgrave. Science. n.s., v.82. p.461-462. November 15, 1935.

Ditch rider replaces cowboy character of the West. Popular mechanics.
v.55. p.95. January 1931.

Dividing a river by treaty. A.S. Burleson. World to-day. v.12.
p.547-549. May 1907.

Drama of the Colorado; the Swing-Johnson bill providing for the Boulder dam
and the all-american canal. R.L. Duffus. v.42. p.147-149.
April 1, 1925.

Drought and its relation to supplemental irrigation. J.C. Russel.
Agricultural engineering. v.11. p.97-99. March 1930.
Frequencies and nature of droughts; effects on yields, and possibility of
minimizing their effects by supplemental irrigation; central Great Plains,
particularly portion of it in central Nebraska, potential 450,000 acre
supplemental irrigation project is dealt with.

Economic and social aspects of federal reclamation. Dorothy Lampen.
Baltimore, Johns Hopkins press, 1930. 125p.

Economic problems in agriculture by irrigation. H.C. Taylor. Journal of
political economy, v.15. p.209-228. April 1907.

Economic results of federal reclamation. Elwood Mead. New reclamation
era. v.22. p.2-3. January 1931. General
review of agricultural and economic achievements under irrigation;
crop values; projects to be completed; Hoover dam construction;
changing conditions under reclamation.

Economic survey of certain federal and private irrigation projects. Hearings
before the Committee on irrigation and reclamation, House of representatives,
71st congress, 2d session, March 6, 1930. Washington, D.C., U.S.
Government printing office, 1930. 314p.

Economics and politics of the reclamation service. F.W. Blackmar.
Forum. v.38. p.131-138. July 1906.

Economics of land reclamation in the United States. R.P. Teele.
Chicago and New York, A.W. Shaw company, 1927. 337p.

Economy in irrigation. V.M. Spalding. Popular science. v.67.
p.684-686. December 1905.

Effect of irrigation upon soil texture. T.H. Means. Science. n.s., v.84.
p.39-40. July 10, 1936.

Eighth world wonder. R.O. Case. Saturday evening post. v.208.
p.261. July 13, 1935.

Elwood Mead outlines his rural credit experiment. Irrigation age.
v.31. p.102. May 1916.

- Engineering results of irrigation survey. Herbert M. Wilson.
Washington, D.C., Government printing office, 1894. 101-427,
479-486p. Extract from the 13th annual report of the director
of the U.S. Geological survey, 1891-92.
- Evolution of the west. O.L. Dickeson. World to-day. v.19.
p.1145-1150. October 1910.
- Explanatory statement regarding report of Committee of irrigation division.
J.B. Lippincott. American society of civil engineers. Transactions.
v.95. p.1307-1320. 1931.
- Farm loans on irrigation projects. Congressional record. v.56.
p.1273-1287. January 23, 1918.
- Farming with water. E.V. Wilcox. Country gentleman. v.85.
p.3-4+ July 17, 1920.
- Federal cooperative reclamation act ... Report. (to accompany S. 2170)
Washington, D.C., Government printing office, 1921. 10p.
U.S. 67th congress. Senate. Report no.190.
- Federal cooperative reclamation act ... Report. (to accompany S. 3254.)
Washington, D.C., Government printing office, 1922. 9p.
U.S. 67th congress. Senate. Report no.542.
- Federal irrigation projects. U.S. Bureau of reclamation.
Washington, D.C., 1930. 83p.
- Federal irrigation projects. U.S. Bureau of survey and adjustments.
Washington, D.C., 1926. 61p. U.S. 69th congress.
House. Document no.201.
- Federal irrigation projects. Letter from the secretary of the interior
transmitting the report of the Board of survey and adjustments appointed
to carry into effect the provisions of subsection k of section 4 of the
second deficiency act, fiscal year 1924, approved December 5, 1924.
Washington, D.C., Government printing office, 1926. 61p.
U.S. 69th congress. House. Document no.201.
- Federal irrigation projects; their economic and social value. G.C. Kreutzer.
New reclamation era. v.20. p.130-132. September
1929. Economic value of irrigation is illustrated by facts
concerning Shoshone dam which was completed in 1910 in Wyoming and which
are cited as typical.
- Federal irrigation reservoirs as pleasure resorts. Elwood Mead.
Washington, D.C., U.S. Government printing office, 1928. 50p.
- Federal irrigation work in 1928-29; appropriations. Engineering and
contracting. v.67. p.264. May 1928.

Federal reclamation by irrigation. Message from the President of the United States transmitting a report submitted to the secretary of the interior by the Committee of special advisers on reclamation. Washington, D.C., Government printing office, 1924. 230p.
U.S. 68th congress. Senate. Document no.92.

Federal reclamation laws annotated. Chronological compilation of the public statutes of the United States relating to the federal irrigation of arid lands; with notes of decisions of the courts, the comptroller, the comptroller general, the attorney general, the Department of the interior, and the Bureau of reclamation. Glenna F. Sinclair. May 1931. Washington, D.C., U.S. Government printing office, 1931. 462p.

----- Supplement ... containing the laws of the 72d congress, 1st session, with annotations and with annotations applicable to previous legislation affecting reclamation. August 1932. Glenna F. Sinclair. Washington, D.C., Government printing office, 1932. 60p.

----- Cumulative supplement ... containing the laws of the 72d congress and of the 73d congress, 1st session with annotations and with annotations applicable to previous legislation affecting reclamation. July 1933. Glenna F. Sinclair. Washington, D.C., U.S. Government printing office, 1933. 90p.

----- Cumulative supplement ... containing the laws of the 72d and 73d congresses, with annotations applicable to previous legislation affecting reclamation. July 1934. Margaret G. Young. Washington, D.C., U.S. Government printing office, 1934. 122p.

Federal reclamation laws of the United States, annotated. Chronological compilation of the public statutes of the United States relating to the federal irrigation of arid lands; with notes of decisions of the courts, comptroller, attorney general, Department of the interior, and Reclamation service. Ottamar Hamele. January 1, 1920. Washington, D.C., Government printing office, 1920. 200p.

Federal reclamation projects. October 1935. Washington, D.C., U.S. Government printing office, 1935. 96p.

Federal subsidy in land reclamation. R.P. Teele. Journal of land and public utility economics. v.3. p.337-342. November 1927.

Fifteenth census; 1930; instructions to special enumerators; irrigation and drainage. Washington, D.C., U.S. Bureau of the census, 1930. 28p.

Fight for the Yellowstone waters. Literary digest. v.67. p.88-91. October 23, 1920.

Flood-water farming. K. Kryan. Geographical review. v.19. p.444-456. July 1929.

- Forcing fruit in nature's hothouse. R. Bache. Technical world. v.17.
p.446-447. June 1912.
- Forecast of future irrigation development. S. Fortier. Engineering and
contracting. v.61. p.594-595. March 12, 1924.
- Forty-ninth state. M.M. Rice. Independent. v.117.
p.122-124. July 31, 1926.
- Function of the Division of irrigation, U.S. Department of agriculture.
California cultivator. v.81. p.155+ March 31, 1934.
- Fund for reclamation of arid lands. Message from the President of the
United States transmitting a report of the Board of army engineers to
the reclamation fund. Washington, D.C., Government printing office,
1911. 197p. U.S. 61st congress. House.
Document no.1262.
- Futility of further development of irrigation projects. F.P. Willits.
Annals of the American academy of political and social science.
v.142. p.186-195. March 1929.
- Future of the southwest; reply to R.L. Duffus. M. Austin. New republic.
v.42. p.186. April 8, 1925.
- Garden of Allah in Death valley; how irrigation will cause date palms to
flourish in Turnace creek ranch. J.L. Von Blon. Scientific american.
v.134. p.242-243. April 1926.
- Giving the settler on irrigation projects a square deal. Irrigation age.
v.31. p.69. March 1916.
- Going underground for water. W.D. Hornaday. Technical world.
v.20. p.142+ September 1913.
- Government as a homemaker. H. Wright. World to-day. v.10.
p.156-163. February 1906.
- Government irrigation in the Yakima watershed. D.A. Willey. Scientific
american. v.102. p.320-321. April 16, 1910.
- Grand Coulee. J. Rorty. Nation. v.140. p.329-331, 446-448.
v.141. p.101-102. March 20, April 17, July 24, 1935.
- Great irrigation project at Strawberry valley. N. Forest. Scientific
american. v.108. p.288-289. March 29, 1913.
- Great valley. W.V. Wophlke. Sunset. v.34. p.284-296.
February 1915.
- Growing irrigated grain in southern Idaho. L.C. Aicher. U.S. Department
of agriculture. Farmers' bulletin no.1103. Washington, D.C.,
1920. 28p.

Gunnison tunnel. E. Parsons. World to-day. v.9.
August 1905.

p.872-875.

Hearings before the Committee on irrigation of arid lands of the House of representatives, February 1,2,3,5,8,9,10,11, 1909, relating to present condition of the reclamation projects, returns to the fund, organization and methods of work of the Reclamation service. Washington, D.C., Government printing office, 1909. 144p.

Hearings before the Committee on irrigation of arid lands of the House of representatives, April 23, 1910, relating to proposed legislation, present condition of reclamation projects, returns to the reclamation fund, success of settlers, etc. Washington, D.C., Government printing office, 1910. 61p.

Hearings before the Committee on irrigation of arid lands of the House of representatives, April 23, June 1 and 8, 1910. Relating to proposed legislation, present condition of reclamation projects, returns to the reclamation fund, business methods of the Reclamation service, success of settlers. Washington, D.C., Government printing office, 1910. 189p.

Hearings before the Committee on irrigation of arid lands of the House of representatives relating to projects for the irrigation of arid lands under the national irrigation act and the work of the division of irrigation investigations of the agricultural department in connection with irrigation of arid lands. Washington, D.C., Government printing office, 1905. 159p. U.S. 58th congress. House, Document no.381.

Hearings before the Committee on irrigation of arid lands of the House of representatives. Relating to proposed legislation, present condition of reclamation projects, success of settlers, returns to reclamation fund, crops, etc. January 27, February 3 and 8, 1912. Washington, D.C., Government printing office, 1912. 253p.

Hearings before the Committee on the public lands of the House of representatives relating to the reclamation and disposal of the arid public lands of the West. January 11 to 30, 1901. Washington, D.C., Government printing office, 1901. 135p.

Hearings before the Committee on irrigation of arid lands of the House of representatives relating to the reclamation work of the government under the national irrigation act. April 16 to 30, 1906. Washington, D.C., Government printing office, 1906. 246p.

Hearings before the Select committee on irrigation, House of representatives, fifty-first congress, on the general subject of irrigation in the United States. February 6 to April 24, 1890. Washington, D.C., Government printing office, 1890. 134p.

- High-pressure reservoir outlets: a report on Bureau of reclamation installations. J.M. Gaylord ... and J.L. Savage ... Washington, D.C., Government printing office, 1923. 179p.
- How America's irrigation problem has been solved. E.L. Hampton. Current history magazine. v.18. p.648-654. July 1923.
- How irrigation is making good. A.C. Laut. Review of reviews. v.46. p.457-461. October 1912.
- How much of the west is irrigated? Illustrated World. v.34. p.468-469. November 1920.
- How our national forests conserve irrigation and water-power. Literary digest. v.61. p.118. April 26, 1919.
- Hydro power provides revenue for irrigation works. H.A. Brown. Power. v.74. p.663-665. November 10, 1931.
- Indians of the United States. Hearings before the Committee on indian affairs, House of representatives, 69th congress, 1st session on the condition of various tribes of indians. Act of June 30, 1919. Washington, D.C., Government printing office, 1919. 2v.
- Interesting letter concerning recent hearings before the House committee on irrigated lands. F.D. Catlin. Irrigation age. v.32. p.136-138. July 1917.
- Investigation on irrigation and drainage in the West. O.W. Israelson and H.E. Murdock. American society of agricultural engineers. Transactions. v.11. p.181-191. 1918.
- Irrigated lands in the United States. Descriptions of all reclamation service projects - their location, acreage, cost of water rights, suitable crops, markets, railroad facilities and principal towns. Complete list of government irrigated lands and Carey act projects. Many important private irrigation enterprises. St. Paul, Minn., Webb publishing co., 1911. 66p.
- Irrigated lands of United States, Canada and Mexico. Charles R. Price. Los Angeles, Cal., Scenic America publishing co., 1908. 71p.
- Irrigating system instead of a watering can. F.F. Rockwell. Garden magazine. v.16. p.130. October 1912.
- Irrigation. U.S. Industrial commission. Report. v.10. p. introduction 200-212.
- Irrigation. U.S. Bureau of the census. Washington, D.C., 1910. v.5. agriculture. p.827-876.

- Irrigation. Isaac Lippincott. In his Economic development of the United States. 1921. p.382-386. Development in U.S., including the Desert land act, Carey act of 1894, and National reclamation act of 1902.
- Irrigation. J.L. Mathews. In his Conservation of water. 1910. p.176-219.
- Irrigation. Its history, methods, statistics and results. Lands irrigated along the Union Pacific system. Union Pacific railroad company. St. Louis, Woodward & Tiernan printing company, 1894. 124p.
- Irrigation: how the federal government is reclaiming arid land. W.R. Draper. Independent. v.64. p.1172-1178. May 28, 1908.
- Irrigation - speculation - coöperation - reclamation. P.W. Black. American city. v.13. p.377-380. November 1915.
- Irrigation and engineering. D.A. Willey. Cassier. v.37. p.662-683. April 1910.
- Irrigation and growth of sugar beets. F.C. Jean. Louisiana planter. v.2. p.86-87. July 1924.
- Irrigation and our national food supply. P.A. Cupper. Irrigation age. v.32. p.186. October 1917.
- Irrigation and reclamation. Western construction news. v.4. p.382-390. July 25, 1929. Review of progress being made on Kittitas division, Yakima project, Washington; canal extension, Minidoka gravity canal, Burlet, Idaho; Vale project, Vale, Ore.; Owyhee dam, Ore.; power development by B.C. Electric railway co., Vancouver; Salt river valley waters users association, Phoenix, Arizona; Great western power co., San Francisco; Leaburg hydroelectric development, Eugene, Ore.
- Irrigation and settlement in America. A.D. Lewis. Pretoria, Government printing and stationery office, 1915. 258p.
- Irrigation at a standstill. Literary digest. v.48. p.550. March 14, 1914.
- Irrigation district operation and finance. W.A. Hutchins. U.S. Department of agriculture. Department bulletin no.1177. Washington, D.C., 1923. 56p.
- Irrigation districts, their organization operation and financing. W.A. Hutchins. U.S. Department of agriculture. Technical bulletin no.254. Washington, D.C., 1931. 93p.
- Irrigation, drainage and water power; list of publications relating to above subjects for sale by superintendent of documents, Washington, D.C. U.S. Superintendent of documents. Washington, D.C., Government printing office, 1937. 28p.

- Irrigation engineering in the United States. C.H. Kendall. University of Minnesota, Society of engineers. Yearbook. v.4. p.23-30. 1896. The importance of the question is shown, and in a general way the paper discusses the present practice and methods employed in the west.
- Irrigation enterprise in the United States. C.E. Grunsky. International engineering congress, 1915. Transactions. p.342-370. San Francisco, Cal., 1916. Outlines various ways in which irrigation enterprises have been handled.
- Irrigation for every farm. R. Byrd. Technical world. v.21. p.116-117. March 1914.
- Irrigation frauds in ten states. R.R. Howard. Technical world. v.17. p.504-514. July 1922.
- Irrigation in the fourteenth census of the United States. R.P. Teele. Engineering news record. v.83. p.926-927. November 27, 1919.
- Irrigation in the United States. Scientific american supplement. v.55. p.22596-22599, 22616-22618. January 10 - 17, 1903.
- Irrigation in the United States. Scientific american supplement. v.59. p.24327-24328. February 4, 1905.
- Irrigation in the United States. S. Fortier. Pan American scientific congress. Proceedings, 1915. v.3. p.81-95, 283-292, 292-297, 297-308. 1917. Engineering work of the United States reclamation service, by A.P. Davis; irrigation work of the United States indian service, by W.M. Reed; combination of water resources for irrigation and power development, by G.G. Anderson.
- Irrigation in the United States. Richard J. Hinton. Being a 2d edition of Miscellaneous document no.15, 49th congress. Washington, D.C., Government printing office, 1890. 386p. U.S. Congress. Senate. Select committee on irrigation and reclamation of arid lands. Report ... part 6.
- Irrigation in the United States. Elwood Mead. Engineering record. v.42. p.178-179. August 25, 1900. Describing the influence which retard the development of irrigation works in the United States.
- Irrigation in the United States. Elwood Mead. American society of civil engineers. Transactions. v.54. p.82-110. 1905.
- Irrigation in the United States. F.H. Newell. Revised edition. New York, T.Y. Crowell & co., 1906. 433p.
- Irrigation in the United States; discussion of its legal, economic and financial aspects. Ray Palmer Teele. New York, D. Appleton and co., 1915. 252p.

Irrigation in the United States. Report prepared by Richard J. Hinton, under the direction of the Commissioner of agriculture. Washington, D.C., Government printing office, 1887. 240p. U.S. 49th congress. Senate. Miscellaneous document no. 15.

Irrigation in the United States. Testimony of Elwood Mead before the United States industrial commission, June 11 and 12, 1901. U.S. Department of Agriculture. Office of experiment stations. Bulletin no.105. Washington, D.C., 1901. 47p.

Irrigation in west to solve food problem. D. Lubin. Irrigation age. v.33. p.50. April 1918.

Irrigation investment and growth. California cultivator. v.60. p.376. March 31, 1923.

Irrigation of agricultural lands. General reports and analytical tables, reports by states with statistics for counties, and a summary for the United States. U.S. Bureau of the census. Washington, D.C., Government printing office, 1932. 481p.

Irrigation of small grain. W.W. McLaughlin. U.S. Department of agriculture. Farmers' bulletin no.1556. Washington, D.C., 1928. 13 p.

Irrigation on Muscatine island. A.W. Beatty. Wallaces' farmer. v.42. p.183. February 2, 1917.

Irrigation practices in growing alfalfa. S. Fortier. U.S. Department of agriculture. Farmers' bulletin no.1630. Washington, D.C., 1930. 26p.

Irrigation problems. Outlook. v.84. p.99. September 15, 1906.

Irrigation projects of the Reclamation service ... National reclamation of arid lands. Washington, D.C., Government printing office, 1923. 40p.

Irrigation requirements of the arid and semiarid lands of the Columbia river basin. S. Fortier and A.A. Young. U.S. Department of agriculture. Technical bulletin no.200. Washington, D.C., 1930. 56p. Soils of Columbia river basin; climatic conditions; agricultural resources; irrigation practice; relation of water applied to crop yield; water requirement of potatoes, wheat and other small grain, alfalfa, trees; conditions influencing quantity of irrigation water required; land reclamation; monthly and seasonal irrigation requirements.

Irrigation requirements of the arid and semi-arid lands of the Missouri and Arkansas river basins. S. Fortier. U.S. Department of agriculture. Technical bulletin no.36. Washington, D.C., 1928. 112p.

Irrigation requirements of arid and semi-arid lands of Pacific slope basins.

S. Fortier and A.A. Young. U.S. Department of agriculture.
Technical bulletin no.379. Washington, D.C., 1933. 69p.

Soils of Pacific slope basins; climatic conditions; river basins and water resources; irrigation practice; crops grown under irrigation; relation of water applied to crop yield; water requirements of alfalfa, cereals, rice, cotton and vegetables; tank experiments; experiments with pear, citrus and walnut trees; duty of water as affected by State, community and corporate regulations; reclamation of arable lands.

Irrigation requirements of the arid and semiarid lands of the southwest.

S. Fortier and A.A. Young. U.S. Department of agriculture. Technical bulletin no.185. Washington, D.C., 1930. 68p.

Survey of irrigation conditions in Arizona, New Mexico, and other southwestern states; soils, climatic conditions, water resources; agricultural resources; irrigation practice; water requirement of sorghums, cotton, alfalfa, Rhodes grass, corn, vegetables; conditions influencing quantity of water required for irrigation; duty of water as affected by state, community, and corporate regulations; area irrigated in 1919, amounting to 3,771,000 acres, may be increased to 13,000,000 acres.

Irrigation sense and nonsense. National electric light association.
Bulletin no.18. p.413-417. June 1931.

Irrigation situation. R.P. Teele. Journal of political economy.
v.13. p.237-245. March 1905.

Irrigation summary for the United States 1929 and 1930. U.S. Bureau of the census. Washington, D.C., Government printing office, 1932. 21p.

Irrigation under the provisions of the Carey act. G. Ervin.
U.S. Department of agriculture. Office of the secretary. Circular no.124. Washington, D.C., 1919. 14p.

Irrigation water and electric power from same storage reservoir; Melones dam, California. Scientific american. v.136. p.328-329. May 1927.

Irrigation water divided United States and Canada. B.E. Jones.
Engineering news record. v.85. p.1277-1279. March 31, 1921.

Irrigation work in Indian bureau. Engineering news record. v.110. p.712-714. June 1, 1933. Review of irrigation construction and practice in Indian reservations within radius of 600 mi. of Salt Lake City, Utah; Wapato project; silt problem on San Carlos project; minor projects.

Irrigation works of the United States government. Engineer. v.108. p.311-313. September 17, 1909. Illustrates and describes the extensive works being constructed in the arid and semi-arid regions.

- Irrigations aux Etats-Unis d'Amerique et aux iles Hawai: Report.
O.P. Austin. Bruxelles, Impr. Ve. A. Mertens et fils, 1905. 13p.
- Keeping up with science; Reclamation act and west. F.L. Darrow.
St. Nicholas. v.58. p.826-827. October 1931.
- Land settlement of irrigation projects. A. Griffin. American
society of civil engineers. Transactions. v.90. p.750-772.
1927.
- Landwirtschaftliche reisebeobachtungen aus Nord-Amerika. Die Amerikanische
bewässerungswirtschaft. Berichte erstattet an den Deutschen
landwirtschaftsrath. Dr. Traugott Mueller. Berlin, 1894.
132p.
- Largest irrigated tract in the world; Twin Falls country. L.M. Sill.
Harpers weekly. v.52. p.11-12. October 17, 1908.
- Laws and regulations relating to the reclamation of arid lands by the
United States. Approved April 29, 1912. Washington, D.C.,
Government printing office, 1912. 39p. U.S. Department of
the interior. General land office. Circular no.102.
- Legal problems of reclamation of lands by means of irrigation. M. Bien.
Annals of the American academy of political and social science.
v.33. p.664-676. May 1909.
- Loans for the relief of drainage and irrigation districts. U.S. House
committee on irrigation and reclamation. Report. (To accompany
H.R. 4650.) Washington, D.C., U.S. Government printing office, 1932.
10p. U.S. 72d congress, 1st session. House. Report no.37.
- Long wait for a paradise. T.W. Ross. Technical world. v.22.
p.724-725. January 1915.
- Magic of water. C.S. Donnelly. Overland. n.s., v.83.
p.289-291. August 1925.
- Making farms out of deserts. R.G. Skerrett. Scientific american.
v.122. p.358. April 3, 1920.
- Making gardens out of lava dust. H.F. Cope. World to-day. v.10.
p.621-628. June 1906.
- Making the desert bloom. C.C. Henry. Farm engineering. v.4.
p.5. July 1916.
- Man-made oases in American deserts. E. Mead. Scientific american.
v.145. p.380-383. December 1931.

Methods of alleviating water shortage on irrigation projects. G.D. Clyde.
Agricultural engineering. v.13. p.37-41, 80.
February, March 1932. Water-shed management; forecasting water
supplies; snow-cover-runoff relations; supplemental water supplies by
pumping; replenishing groundwater supplies artificially; distribution
and application of water; fall and winter irrigation.

Mexico - Equitable distribution of the waters of the Rio Grande. Convention
between the United States and Mexico providing for the waters of the
Rio Grande for irrigation purposes. Washington, D.C., Government
printing office, 1907. 5p.

Mobilization of our resources. Reclamation record. v.8.
p.210-212. May 1917.

Modern water feuds in the west. W.V. Woehlke. World to-day. v.14.
p.663-667. June 1908.

Moratorium for water users. Hearings before the Committee on irrigation
and reclamation, U.S. Senate, 72d congress, 1st session, on S. 2152, a
bill to authorize the secretary of the interior to grant a moratorium
on payment of construction charges on reclamation projects, and on
payments under Warren act contracts, and to defer charges past due and
to make the necessary regulations to give effect to this act, and
S.2163, a bill for the temporary relief of water users on irrigation
projects constructed and operated under the reclamation law. January
25, 26 and 27, 1932. Washington, D.C., U.S. Government
printing office, 1932. 145p.

Moratorium for water users. Hearing before the Committee on irrigation and
reclamation, U.S. Senate, 72d congress, 2d session on S. 5135, S.5198,
S.5236, S.5269, S.5332, and H.R. 13854, bills for the temporary relief
of water users on irrigation projects constructed and operated under
the Reclamation law. January 11, 1933. Washington, D.C.,
Government printing office, 1933. 63p.

Movement of water in irrigated soils, C.S. Scofield. Journal of
agricultural research. v.27. p.617-696. March 1, 1924.
Discusses certain aspects of alkali problem in relation to irrigation
farming which as a whole relates to soluble salts in soil solution.

National efforts at home making. F.H. Nowell. U.S. Smithsonian
institution. Annual report, 1922. Washington, D.C., 1924.
p.517-531.

National irrigation congress. G.E. Barstow. World to-day. v.16.
p.612-616. June 1909.

National policy in development of water resources. H. Hoover.
Engineering and contracting. v.65. p.187-192.
October 1926.

- National reclamation by irrigation. E. Mead. Engineering and contracting.
v.63. p.326-328. February 11, 1925.
- National reclamation of arid lands. Clarence J. Blanchard. U.S.
Smithsonian institution. Annual report, 1906. Washington, D.C.,
1907. p.469-492.
- National reclamation policy. J.B. Lippincott. American society of
civil engineers. Transactions. v.95. p.1307-1320. 1931.
Explanatory statement supplementary to official report of committee
of irrigation division; waiving of interest payments unwise; collection
of physical data; regulation of streams; construction of works by public
or private agencies; water and power should be disposed of at wholesale;
benefits from public funds should be extended to all water users on
stream; land settlement essential to success; accomplishments of
reclamation service.
- National reclamation policy: economic aspects of federal reclamation.
E. Mead. American society of civil engineers. Transactions.
v.95. p.1321-1327. 1931.
- New Eden. J. Shomaker. Overland. n.s., v.61. p.291-294.
March 1913.
- New safeguards sought for reclamation projects. Engineering news.
v.93. p.970. December 11, 1924.
- North Platte irrigation project and associated units. Irrigated age.
v.31. p.166-170. September 1916.
- North Platte project today. J.F. Springer. Scientific american.
v.123. p.629. December 25, 1920.
- Notes on western reclamation; summary of an editor's inspection trip.
W.W. DeBerard. Engineering news. v.93. p.898-900,
948-950. December 4 - 11, 1924.
- Object-lesson in irrigation. C.J. Blanchard. Review of reviews. v.31.
p.701-704. June 1905.
- Obras de riego en los Estados Unidos de America. D. Jose Nicolau y D.
Narciso Puig de la Bellacasa. ... Madrid, Est. tip. de V. Tordesillas,
1908. 285p.
- Official proceedings. International irrigation congress. 1st - date.
1891 - date. Salt Lake City, Utah, 1891 - date.
- Operating problems on federal irrigation projects. G.O. Sanford.
Agricultural engineering. v.14. p.245-247.
September 1933. Achievements of United States government irrigation;
some aspects of delivery of water to landowners; sources of financing
federal irrigation projects.

- Orchard irrigation. S. Fortier. U.S. Department of agriculture.
Farmers' bulletin no.1518. Washington, D.C., 1927. 27p.
- Orchard irrigation question in the Pacific northwest. R.W. Allen.
Better fruit. v.13. p.5-6. July 1918.
- Organization of water users' associations, 1913. U.S. Bureau of
reclamation. Washington, D.C., Government printing office, 1913.
31p.
- Our paternal uncle; how Uncle Sam helps those who help themselves.
F.K. Lane. Sunset. v.33. p.512-518. September 1914.
- Our sub-arid belt. E.V. Smalley. Forum. v.21. p.486-493
June 1896. An examination of that portion of the prairie land where
climate and soil appear inviting to agriculture, but where there is not
sufficient rain fall for profitable tillage. The conditions that have
proved discouraging are presented, and irrigation by artesian wells,
and what it has accomplished is explained.
- Our wealth in swamp and desert; irrigation and drainage. J.J. Hill.
World's work. v.19. p.12595-12617. February 1910.
- Place of federal reclamation in the federal land policy. Elwood Mead.
Washington, D.C., U.S. Government printing office, 1931. 8p.
- Plan for increasing the humidity of the arid region and the utilization
of some of the great rivers of the United States for power and other
purposes. Communicated to the National irrigation congress, Ogden, Utah,
September 12, 1903. John Patten. New York, Blanchard press,
1903. 19p.
- Possibilities and need of supplemental irrigation in the humid region.
M.B. Williams. U.S. Department of agriculture. Yearbook, 1911.
Washington, D.C., 1912. p.309-320.
- Power in its relation to irrigation. Henry J. Pierce and Edward C. Bobb.
World power conference. Transactions, 1924. v.2.
London, 1935. p.424-453.
- Predicting water supply for the farmer: forecasting summer flow of streams
from snow measurements in the mountains. J.C. Alter.
Scientific american supplement. v.73. p.413-414.
June 29, 1912.
- Preliminary work on great federal irrigation program needed now.
Engineering news record. v.80. p.392. February 28, 1918.
- Private irrigation enterprise compared with government reclamation.
Francis G. Tracy. Washington, D.C., Government printing office, 1912.
23p. U.S. 62d congress. Senate. Document no.869.
- Problem of aridity. C.M. Harger. North American review. v.163.
p.711-715. December 1896. Situation in the west, decrease in
value of property and serious conditions to be met by the people of the
semi-arid regions.

- Problems of western reclamation. R.C.E. Weber. New reclamation era.
v.22. p.50-51. March 1931. Repayment of
charges furthers new construction; repayments not required on poor land;
requirements of settlers; engineering experience of bureau; riparian rights;
benefits of reclamation.
- Proceedings of the International irrigation congress held in Salt Lake City,
Utah October 1912 Washington, D.C., Government printing office,
1913. 1lp. U.S. 63d congress. Senate. Document no.6.
- Progress in national land reclamation in the United States. C.A. Bissell.
U.S. Smithsonian institution. Annual report, 1919. Washington, D.C.,
1921. p.497-522.
- Progress of irrigation. Literary digest. v.53. p.1653-1654.
December 23, 1916.
- Progress on large projects; land reclamation. Engineering news record.
v.116. p.212-213. February 6, 1936.
- Progress report. U.S. Department of agriculture. Office of irrigation
inquiry. Washington, D.C., Government printing office, 1891.
2 pts. in 1v. U.S. 51st congress. Senate. Ex. document no.53.
Part 1. Progress report on irrigation in the U.S. Richard J. Hinton.
Part 2. Progress report of artesian and underflow investigation between
the 97th degree of west longitude and the foot-hills of the Rocky mountains,
with maps and profiles. Edwin S. Nettleton.
- Proposed irrigation projects. Hearings before the Committee on irrigation
of arid lands, House of representatives, Sixty-fourth congress, first
session. April 15, 1916. Washington, D.C., Government printing
office, 1916. 34p.
- Public control of irrigation in the United States. R.P. Teele.
Pan American scientific congress. Proceedings, 1915. v.3.
p.855-860. 1917.
- Pump in a thirsty land. W.V. Woehlke. Sunset. v.35. p.712-721.
October 1915.
- Pumping from wells for irrigation. P.A. Ewing. U.S. Department of
agriculture. Farmers' bulletin no.1404. Washington, D.C., 1932.
32p.
- Rain-making for the orange grower. R.A. Mack. Technical world. v.17.
p.568-569. July 1917.
- Reclaiming the desert. C.J. Blanchard. Geographical society of
Philadelphia. Bulletin. v.7. Philadelphia, Pa., 1909.
10p.
- Reclamation. F.H. Newell. Outlook. v.83. p.933-941.
August 25, 1906.

- Reclamation advisors report on needs of projects and policy for future irrigation. Engineerings news record. v.92. p.726-729.
April 24, 1924. Report rendered by Special advisors on reclamation. Original law found ineffective; recommends repayment according to productivity of land; financial and agricultural aid necessity for success.
- Reclamation from the viewpoint of the settler. E. Gillette. Irrigation age. v.31. p.119-121. June 1916.
- Reclamation fund advances. Hearings before the Committee on ways and means, House of representatives on H.R. 7754, a bill providing for advances to the reclamation fund. September 18, 1919. Washington, D.C., Government printing office, 1919. 37p.
- Reclamation fund bond issue. Hearings before the Committee on ways and means, House of representatives. January 20, 1920. Washington, D.C., Government printing office, 1920. 30p.
- Reclamation of new lands by irrigation. M.E. Bernis. California cultivator. v.80. p.187. April 15, 1933.
- Reclamation of the arid west. F.H. Newell. Science. n.s., v.33. p.681-684. May 5, 1911.
- Reclamation policy held sound in committee report. J.W. Haw and F.E. Schmitt. Engineering news record. v.114. p.167-169. January 31, 1935. Abstract of report recommending collection of repayments by bank system, planning based on stream-system development, Federal control of storage, and adoption of uniform power policy for future program of irrigation in arid west.
- Reclamation problems analyzed in economic study. Engineering news record. v.105. p.175. July 31, 1930. Abstract of special study of western irrigation projects, both federal and private, carried by board of experts appointed by President; active State cooperation in construction and maintenance urged; government credit for individual settlers needed.
- Reclamation projects. Letter from the secretary of the interior, transmitting information in compliance with Senate resolution of February 10, 1910, as to the amount of money required to finish reclamation projects now under consideration and the amount of money expended under each of the projects, etc. Washington, D.C., Government printing office, 1910. 31p. U.S. 61st congress. Senate. Document no.376.
- Reclamation projects receive added funds for continuation. Engineering news record. v.115. p.380. September 12, 1935.
- Redeeming the west. C.J. Blanchard. Sunset. v.17. p.207-214. September 1906.

- Regadadio federal en los Estados Unidos de Norte America. C. Wauters.
Ingenieria. v.32. p.591-603. December 1929.
Federal irrigation in the United States. Historical review and commentary
on federal-aid irrigation; revelations following investigation brought
about by public clamor; suggested program for Argentina.
- Relation of irrigation to dry farming. E. Mead. U.S. Department of
agriculture. Yearbook, 1905. Washington, D.C., 1906.
p.423-438.
- Relation of the state to irrigation. R.P. Teele. Journal of political
economy. v.14. p.236-251. April 1906.
- Relief of drainage and irrigation districts by the federal government.
Hearing ... Washington, D.C., Government printing office, 1932.
24p.
- Report. U.S. Senate. Special committee on the irrigation and reclamation
of arid lands. Washington, D.C., Government printing office, 1890.
6v. U.S. 51st congress. Senate. Report no.928.
- Report against Columbia basin irrigation project. Engineering news.
v.95. p.502-503. September 24, 1925.
- Report indicates need for irrigation subsidies. Engineering news record.
v.116. p.507-508. April 2, 1936.
- Report of an economic survey of certain federal and private irrigation
projects, 1929. U.S. Bureau of reclamation. Washington, D.C.,
Government printing office, 1930. 85p.
- Report of the Committee of the irrigation division - Drainage of irrigated
lands. American society of civil engineers. Transactions.
v.94. p.1425-1449. 1930.
- Report of the committee of the irrigation division on a National reclamation
policy. American society of civil engineers. Transactions.
v.95. p.1303-1418. 1931.
- Report of the Committee on irrigation; summary of the educational work
offered by the educational institutions of the country. American
society of agricultural engineers. Transactions. v.12. p.263-265.
1919.
- Report of the Committee on irrigation and reclamation of arid lands on the
investigation of irrigation projects ... Washington, D.C.,
Government printing office, 1911. 917p. U.S. 61st congress.
Senate. Report no.128.
- Report of the committee on irrigation of the American society of agricultural
engineers for the year 1917. O.W. Israelson and H.E. Murdock.
Irrigation age. v.33. p.23-25. March 1918.

- Report of the Special committee of the United States senate on the irrigation and reclamation of arid lands ... Washington, D.C., Government printing office, 1890. 2v.
- Report of the special committee of the United States senate on the irrigation and reclamation of arid lands ... Washington, D.C., Government printing office, 1890. 6v. U.S. 51st congress. Senate, Document no.928.
- Report on irrigation. 1893. U.S. Office of irrigation inquiry. Washington, D.C., Government printing office, 1893. 4v in 1. U.S. 52d congress. Senate. Ex. document no.41.
- Reports on the engineering, agricultural, and economic feasibility of the projects investigated. U.S. Bureau of reclamation. Washington, D.C., 1925. 272p.
- Rescuing a people by an irrigating ditch. O. Wilson. World's work. v.22. p.14815-14817. September 1911.
- Reservoirs for irrigation. James D. Schuyler. Washington, D.C., Government printing office, 1897. 617-740p. Extract from the 18th annual report of the U.S. Geological survey, 1896-97, pt. IV.
- Resolutions at 23d International irrigation congress held at El Paso, Texas. Irrigation age. v.32. p.200-201+ November 1916.
- Resources committee report on irrigation and drainage. American forests. v.42. p.240. May 1936.
- Results of national irrigation. Literary digest. v.64. p.100-103. January 17, 1920.
- Results of national irrigation. A.P. Davis. Engineering and contracting. v.53. p.54-55. January 14, 1920.
- Results of the irrigation work of the U.S. Reclamation service. Municipal and county engineering. v.55. p.75. August 1918.
- Resume of work accomplished during calendar year 1931 and proposed for calendar year 1932. R.F. Walter. Reclamation era. v.23. p.105-108. June 1932. Review of work of U.S. Bureau of reclamation; new projects or features authorized; new projects proposed during 1932; appropriations available; dams completed or under construction; canal and lateral construction; drainage construction; power and pumping plants; clearing Jackson lake reservoir; operation and maintenance.
- Resume of work in progress during present fiscal year and proposed for fiscal year 1930. R.F. Walter. New reclamation era. v.20. p.50-54. April 1929. Report of U.S. Bureau of reclamation discussing Bureau program, Boulder canyon, legislation status of reclamation fund, construction of dams, progress of canal and drainage construction; progress in completing old projects.

- Return-flow water from irrigation developments. R.I. Meeker. Engineering
news. v.89. p.105-108. July 20, 1922.
- Return to the reclamation fund of the cost of construction. E.E. Roddis.
Irrigation age. v.33. p.51-52. April 1918.
- Reversing a river to water a state; plan to make a single irrigating
channel of the Sacramento and San Joaquin rivers. Literary digest.
v.89. p.21. June 12, 1926.
- Review of the work on the Rio Grande irrigation project. Irrigation
age. v.31. p.72. March 1916.
- Rio Grande irrigation project. F.N. Bauskett. World to-day. v.19.
p.1029-1031. September 1910.
- Rio Grande irrigation project. N. Forest. Scientific american supplement.
v.70. p.97. August 13, 1910.
- Rise and future of irrigation in the United States. Elwood Mead.
U.S. Department of agriculture. Yearbook, 1899. Washington, D.C.,
1900. p.591-612.
- Saga of Imperial valley. E. McGaffey. National republic. v.22.
p.14-15+ October 1934.
- Salinity of irrigation water. Carl S. Scofield. U.S. Smithsonian
institution. Annual report, 1935. Washington, D.C., 1936.
p.275-287.
- Sanitary features of irrigation. J.H. Rider. American journal of public
health. v.20. p.1187-1191. November 1930.
- Seepage losses in irrigation systems: their economic significance.
E.G. Hopson. Scientific american supplement. v.75. p.56-59.
January 25, 1913.
- Senate opposes the president on the Snake river dam question.
Outlook. v.88. p.804. April 11, 1908.
- Settlers with small farms most successful on United States reclamation
projects. F.K. Lane. Engineering record. v.74. p.705-706.
December 9, 1916.
- Seven-state irrigation treaty; with text. E.L. Hampton. Current history
magazine. v.17. p.992-1002. March 1923.
- Small fruit irrigation. A.S. Colby. Illinois state horticultural society.
News letter no.8. December 1936. 3p.
- Snowmen battle the drought. Popular mechanics. v.63. p.686-689.
May 1935.

Something for nothing; combination of engineering, water and land that makes wealth. C.H. Claudy. Scientific american. v.124. p.32.
January 8, 1921.

Speaking of reclamation. R. Stewart. Field illustrated. v.36.
p.22-23. February 1926.

Sprinkler and irrigation system. Plumbers trade journal. v.89.
p.18-19. August 15, 1930. Frost and drought cost
American horticulturists, fruit and vegetable growers millions of
dollars annually; good watering systems are effective remedy of universal
acceptance.

Stand van het rijksirrigatiewezen in de vereenigde staten van Noord-Amerika.
R.A. van Sandick. Ingenieur. v.26. p.361-371.
April 1, 1911. Government irrigation works in the United States.
Detailed description of methods and machinery, with brief reference to
their applicability to conditions in the Dutch East Indies.

Status and needs of irrigation in the United States. O.W. Israelson.
American society of agricultural engineers. Transactions. v.10.
p.84-90. 1917.

Status of U.S. irrigation work. R.F. Walter. Engineering and contracting.
v.68. p.259-261. June 1929.

Stimulation of food production under reclamation projects. Hearings before
the Committee on irrigation of arid lands, House of representatives,
65th congress, 1st session on H.R. 2913, a bill to stimulate the
production of food upon private and public lands within the reclamation
projects, and for other purposes. Monday, April 16 - Wednesday, May 16,
1917. Washington, D.C., Government printing office, 1917.
151p.

Stimulation of food production ... Report. (To accompany H.R. 4431.)
Washington, D.C., Government printing office, 1917. 11p.
U.S. 65th congress. House. Report no.107.

Sugar-beet growing under irrigation. C.O. Townsend. U.S. Department of
agriculture. Farmers' bulletin no.567. Washington, D.C., 1922.
32p.

Suggestions for report of Senate committee on irrigation. Francis G. Newlands.
Washington, D.C., Government printing office, 1911. 20p.

Supplemental irrigation in the humid region. Agricultural engineering.
v.18. p.28. January 1937.

Surveying snow. Independent. v.105. p.100.
January 22, 1921.

Taking over the project. Irrigation age. v.32. p.149-150.
August 1917.

- Tale of Uncle Sam's voyage in an irrigating ditch. G. Garrett.
Saturday evening post. v.197. p.8-9. January 17, 1925.
- Taming of the Rio Grande. W.V. Woehlke. Sunset. v.36.
p.39-41. January 1916.
- Taming the green Snake. W.V. Woehlke. Sunset. v.48. p.24-27.
February 1922.
- Temporary relief for water users on irrigation projects construction and
operated under the reclamation law. Hearing before the Committee on rules,
House of representatives, Seventy-second congress, 1st session, on H. Res.
152 and H. Res. 9489. February 23, 1932. Washington, D.C.,
Government printing office, 1932. 28p.
- Third of a billion irrigating project. Illustrated world. v.35.
p.117. March 1921.
- Time test of a great irrigating system. H.A. Crafts. Scientific american.
v.93. p.177. September 2, 1905.
- To liquidate irrigation debts. Literary digest. v.81. p.16.
May 3, 1924.
- To promote the reclamation of arid lands on the public lands on the public
domain. Hearings before the Committee on irrigation of arid lands,
House of representatives, Sixty-fourth congress, 1st session on H.R. 262.
February 26, 1916. Washington, D.C., Government printing office,
1916. 28p.
- Transactions of the American society of irrigation engineers. 1892-1897.
Denver, 1893-1897.
- Twelfth national irrigation congress. J.R. Slater. World to-day. v.8.
p.85-89. January 1905.
- Uncle Sam, contractor and builder of western homes. F.K. Lane.
Sunset. v.32. p.1016-1022. May 1914.
- Uncle Sam's irrigation school. Irrigation age. v.31. p.107.
May 1916.
- Uncle Sam's romance with science and the soil. F. Vrooman. Arena.
v.35. p.36-46. January 1906.
- Undertakings without precedent. Engineering news record. v.113.
p.675-707. November 29, 1934. Symposium on extraordinary
undertakings of Federal government of United States, including, power
navigation and irrigation in two projects in Columbia; Boulder canyon
project; Parker dam being built for Metropolitan water district; Fort
Peck dam - \$84,200,000 aid to navigation on Missouri river; irrigation
and power on North Platte river; TVA; experiment in regional development.

- United States reclamation service. J. Mulholland. Institution of engineers of Australia. Journal. v.4. p.69-75. February 1932. Historical and descriptive review of federal irrigation in United States; structures and features of technical interest.
- Unsettled problems of irrigation. K. Coman. American economic review. v.1. p.1-19. March 1911.
- Use of water on federal irrigation projects. E.B. Debler. American society of civil engineers. Transactions. v.94. p.1195-1241. 1930. Hitherto unpublished records on 24 projects of U.S. Bureau of reclamation have been tabulated, to show variations in use of irrigation water by months.
- Usefulness of reservoirs to agriculture in the irrigated regions. Message from the President of the United States, transmitting ... the report of the Secretary of agriculture, regarding the usefulness of reservoirs to agriculture in the irrigated regions of the United States. February 18, 1899. Washington, D.C., Government printing office, 1899. 14p. U.S. 55th congress. Senate. Document no.124.
- Value of snow surveys as related to irrigation projects. A.H. Thiessen. U.S. Department of agriculture. Yearbook, 1911. Washington, D.C., 1912. p.391-396.
- Water and wealth; irrigated valley of the Salt river. G. Marvin. Outlook. v.140. p.425-428. July 22, 1925.
- Water as a natural resource. C.R. Van Hise. In his Conservation of natural resources. 1910. p.185-207.
- Water cure; ed. by W.A. DuPuy. R.L. Wilbur. World's work. v.60. p.24-28. February 1931.
- Water savers. W.V. Woehlke. Outlook. v.94. p.659-667. March 26, 1910.
- Water supply for irrigation. Frederick Haynes Newell. Washington, D.C., Government printing office, 1894. 99p. Extract from the 13th annual report of the director of the U.S. Geological survey, 1891-92, pt.111.
- Watering our deserts. F.W. Parsons. Saturday evening post. v.193. p.36. December 11, 1920.
- Watering the Toltec lands. D. Collidge. Sunset. v.16. p.464-465. March 1906.
- Ways and means in arid America. William E. Smythe. Century magazine. v.51. p.742-758. March 1896. An interesting illustrated account of the rise of irrigation on the plains, and its achievements.

What conservation means to the nation's progress and prosperity. D.A. Willey.
Putnam's. v.7. p.269-270. December 1909.

What makes the farm west grow? W.V. Woolhke. Review of reviews.
v.63. p.181-191. February 1921.

What the federal irrigation scheme augurs for the utilities. H. Corey.
Public utilities. v.11. p.636-645. May 25, 1933.

When Boulder dam is built. E.A. Vandeventer. Sunset. v.56.
p.24-27. February 1926.

Where they won't conserve. G.F. Stratton. Technical world.
v.18. p.555-557. January 1913.

Wichita dam; completion of another big western irrigation project.
Scientific american. v.131. p.30. July 1924.

Winning of the desert. D.A. Willey. Outing. v.46. p.545-557.
August 1905.

With the irrigation farmer. S. Fortier. U.S. Department of agriculture.
Yearbook, 1920. p.203-216. Washington, D.C., 1921.
Separate no.839.

Work of the reclamation service. Scientific american supplement.
v.62. p.25748-25750. October 20, 1906.

UTAH.

Bear river irrigation system, Utah. W.P. Hardesty. Engineering news.
v.35. p.83-85. February 6, 1896.
Article contains full details of the work and is illustrated by cuts and
sections of the dam and tunnel.

Biennial report. 1st - date. 1897 - date. Utah. State engineer's
office. Salt Lake City, 1899 - date.

Cache county water conservation district no.1. W. Peterson and others.
Utah. Agricultural experiment station. Bulletin no.193. Logan, Utah,
1925. 44p.

Changing a salt lake into a fresh water basin. F. Kinney. Popular
mechanics. v.35. p.86-87. January 1921.

Composition of the irrigation waters of Utah. J.E. Greaves and C.T. Hirst.
Utah. Agricultural experiment station. Bulletin no.163. Logan,
Utah, 1918. 43p.

Construction to be started on first division of Salt Lake basin project.
Engineering and contracting. v.66. p.81.
February 1927.

- Design and construction of two new reclamation dams; the Gibson concrete-arch dam and the Echo earthfill dam. Engineering news record.
v.106. p.998-1002. June 18, 1931.
- Development of institutions under irrigation, with special reference to early Utah conditions. George Thomas. New York, Macmillan co., 1920.
293p.
- Drainage, irrigation, soil, economic, and social conditions, Delta area.
O.W. Israelson. Utah. Agricultural experiment station.
Bulletin no.255. Logan, Utah, 1935. 70p.
- Drainage of irrigated lands with special reference to experiments in Utah.
Charles F. Brown. Engineering news. v.64. p.388-391.
October 13, 1910. Condensation of Farmers' bulletin, no.371, U.S.
Department of agriculture. Information concerning methods of reclaiming
irrigated lands affected by excess of water or alkali, based on work
done in Utah.
- Duty of water in Cache valley, Utah. F.S. Harris. Utah. Agricultural
experiment station. Bulletin no.173. Logan, Utah, 1920.
16p.
- Earth and rock-fill dam for irrigation; Pleasant valley dam, Utah.
C.J. Ullrich. Engineering news record. v.100.
p.864-866. May 31, 1928.
- Farming possibilities in Escalante valley. J.W. Paxman and L.M. Winsor.
Utah. Agricultural college. Extension division. Circular v.5,
no.9. Logan, Utah, 1917. 8p.
- Improvements on a state irrigation project in Utah. J.C. Ullrich.
Engineering news record. v.85. p.1084-1089. December 2, 1920.
Piute earth dam strengthened with porous fill after study of seepage.
Spillway enlarged. Cylinder gates. Diversion dam on gravel foundation.
- Intermountain irrigation project. G.B. Walker. Journal of electricity.
v.46. p.440-441. May 1, 1921.
- Inter-water-shed diversions by tunnels on United States reclamation projects;
Strawberry tunnel project. E.B. Dobler. American society of civil
engineers. Transactions. v.94. p.346-351. 1930.
- Irrigation in Utah. Charles Hillman Brough. Baltimore, Johns Hopkins
press, 1898. 212p.
- Irrigation in Utah. Book published by direction of the Utah irrigation
commission. Report of the Irrigation commission to the Third national
irrigation congress held at Denver, September 1894. Salt Lake City,
1895. 130p.

- Irrigation in Utah. Engineering and mining journal. v.62
p.32-33. July 11, 1896. Some interesting figures of results
obtained as given in "The Uthnian", having special reference to the work
being carried out by the Mount Nebo land and irrigation co.
- Irrigation in Utah lake drainage system. A.P. Stover. U.S. Department
of agriculture. Office of experiment stations. Bulletin no.124.
Washington, D.C., 1903. 93-155p.
- Irrigation investigations in 1901. J.A. Widtsoe and others. Utah.
Agricultural experiment station. Bulletin no.80. Logan, Utah,
1902. 67-199p.
- Irrigation of agricultural lands. Utah statistics for state and counties.
U.S. Bureau of the census. Washington, D.C., 1931. 13p.
- Irrigation project on the Price river in eastern Utah. Engineering
record. v.66. p.724-725. December 28, 1912.
Brief illustrated description of the work.
- Mt. Nebo reservoir and canal system, Utah. Engineering news. v.36.
p.354-358. December 3, 1896. Illustrated description
of the construction work.
- Mutual irrigation companies in Utah. W.A. Hutchins. Utah. Agricultural
experiment station. Bulletin no.199. Logan, Utah, 1927.
51p.
- Plans for ultimate development of oldest irrigated area. Engineering
news record. v.84. p.1064-1065. May 27, 1920.
- Present tendencies in water administration. G.M. Bacon. American
society of civil engineers. Transactions. v.94. p.309-312.
1930.
- Report of irrigation investigations in Utah. R.P. Teele and others.
U.S. Department of agriculture. Office of experiment stations. Bulletin
no.124. Washington, D.C., 1903. 330p.
- Report of the Irrigation commission of the territory of Utah to the Third
national irrigation congress assembled at Denver, Colorado.
Salt Lake City, Ackerman printing company, 1894. 24p.
- Report on the lands of the arid region of the United States, with a more
detailed account of the lands of Utah. J.W. Powell. Washington, D.C.,
Government printing office, 1878. 195p. U.S.
45th congress. House. Ex. document no.73.
- Some types of irrigation farming in Utah. E.B. Brossard. Utah.
Agricultural experiment station. Bulletin no.177. Logan, Utah,
1920. 140p.

State planning. Evaporation and conduction losses from reservoirs and canals in Utah. Utah. State planning board... S.R. DeBoer, federal planning consultant. Prepared by Henry R. Watson. Salt Lake City, 1935. 19p. mimeographed.

Twenty-eight years of irrigation experiments near Logan, Utah, 1902-29. D.W. Pittman and G. Stewart. Utah. Agricultural experiment station Bulletin no.219. Logan, Utah, 1930. 15p.

Utah company acclaimed for outstanding public service in alleviating disastrous drought ravages in its territory. Edison electric institute. Bulletin no.2. p.389. December 1934.

Utah's great irrigation tunnel. L. McFall. Technical world. v.18, p.485-487. December 1912.

Utah's position in the Colorado river controversy. H.S. Auerbach. Annalist. v.30. p.5-6. July 1, 1927.

Water rights and irrigation, an act codifying and revising certain laws for determining and recording water rights. New law passed by the 6th session of the legislature of the state of Utah, 1905. n.p., Printed and for sale by the Deseret news, 1905. 32p.

WASHINGTON.

Arable lands of Kittitas valley, Washington, will soon be placed under irrigation. W.R. Young. Hydraulic engineering. v.3. p.14-15. December 1927. Reclamation bureau undertaking development of new division to Yakima project involving over 100,000 acres; main canal; gravity dam 43 ft. high; terms of contract; construction charges; form of management; preventing land inflation; method of appraisal; size of farm units; land settlement; Badger pocket valley plan.

Benefits of irrigation west of the Cascades. G.E. Goodwin. Civil engineering. v.6. p.667-670. October 1936.

Berry crops assured with irrigation. L. Berg. Better fruit. v.22, p.8. July 1927.

Biennial report. Washington. Commissioner of arid lands. Olympia, Wash., 1898 - date.

Building high-head siphons on the Yakima project. Engineering news record. v.103. p.763-765. November 14, 1929.

Cle Elum dam completes storage for Yakima project. R.J. Nowell. Engineering news record. v.11. p.397-400. October 5, 1933.

Columbia basin and Grand Coulee projects. F.A. Banks. Civil engineering. v.4. p.456-459. September 1934.

- Columbia basin irrigation. Hearings 67th congress, 2d session on
S. 3745. Washington, D.C., Government printing office, 1922.
19p.
- Columbia basin irrigation project. W.D. Vincent. Bankers magazine.
v.117. p.539+ October 1928.
- Columbia basin irrigation project. A report by Columbia basin survey
commission, state of Washington, 1920... Olympia, F.M. Lamborn,
public printer, 1920. 185p.
- Columbia basin irrigation project, state of Washington, a report by George
W. Goethals and company, inc. to the Department of conservation and
development, state of Washington ... Olympia, F.M. Lamborn,
public printer, 1922. 56p.
- Columbia basin project. I.C. Crawford. Military engineer. v.20.
p.334-335. July-August 1928. \$100,000 to expend upon
investigation of feasibility of irrigating region; several different
methods of irrigating project have been considered with result that
acreage to be reclaimed varies with each different solution of problem;
both pumping projects are based upon same water supply; Columbia river
in vicinity of head of Grand Coulee; economics; project could be built
in period of six years.
- Columbia basin project. Hearings before the Committee on irrigation and
reclamation, House of representatives, 70th congress, 1st session on
H.R. 7029 by Mr. Summers, a bill for the adoption of the Columbia
basin reclamation project, and for other purposes. January 16 and 17,
1928. Washington, D.C., U.S. Government printing office,
1928. 187p.
- Columbia basin project. Hearings ... House committee on irrigation and
reclamation. Washington, D.C., Government printing office, 1932.
263p.
- Columbia basin project: soil and economic conditions. Report by B.E. Hayden...
and Prof. George Severence ... Washington, D.C., Government
printing office, 1928. 106p.
- Columbia basin project reported feasible. R.F. Walter. Engineering
news record. v.108. p.907-911. June 30, 1932.
Irrigation and power development project, between Spokane and Tacoma,
contemplating irrigation of 1,200,000 acres and development of
1,575,000 kw., involving construction of straight, concrete dam of
gravity section, 420 ft. high and 4100 ft. long; estimated cost
\$376,641,000.
- Columbia basin project, Washington. Hearing before the Committee on
irrigation and reclamation, U.S. Senate, 72d congress, 1st session on
S.2860, a bill to provide for the construction, operation and maintenance
of the Columbia basin project in Washington, and for other purposes.
June 21, 1932. Washington, D.C., U.S. Government printing
office, 1932. 34p.

Columbia basin reclamation project ... Report. (To accompany H.R. 7029.)
Washington, D.C., U.S. Government printing office, 1928. 7p.
U.S. 70th congress. House, Report no.872.

Columbia river basin. Hearing before the Committee on irrigation and
reclamation, United States senate, 69th congress, 1st session, on
S.2663. Bill authorizing the Secretary of the interior to cooperate with
the states of Idaho, Montana, Oregon and Washington in allocation of
the waters of the Columbia river and its tributaries.
Washington, D.C., Government printing office, 1926. 32p.

Crops for new lands on irrigation projects in Washington. H.P. Singleton.
Washington. Agricultural experiment station. Popular bulletin no.132.
Pullman, Wash., 1925. 22p.

Concrete siphons and canal linings feature irrigation system; Otis orchards
irrigation district, Washington. G.W. Hitchcock. Concrete.
v.41. p.13. August 1933.

Construction of main lining on Kittitas division, Yakima reclamation
project, Washington. A. Ruettgers and A.A. Whitmore. American
concrete institute. Journal. v.2. p.117-150.
October 1930.

Construction work on a federal reclamation project; Kittitas division of
the Yakima project, in the state of Washington. M. Mason.
American society of civil engineers. Transactions. v.98.
p.362-417. 1931. History and description of Kittitas division
of Yakima project; structures and more common methods of construction;
supervision of proportioning and mixing of concrete.

Crops for new land on irrigation projects in Washington. H.P. Singleton.
Washington. Agricultural experiment station. Popular bulletin no.132.
Pullman, Wash., 1925. 22p.

Description of the Prosser division of the Sunnyside unit, Yakima project,
United States reclamation service. E.A. Moritz. Engineering
news. v.67. p.569-576. March 28, 1912.
Deals with the construction of a portion of this unit consisting of
about 2500 acres involving all kinds of irrigation construction.

Developing the mighty Columbia; Bonneville and Grand Coulee dams; with
cost data. C.H. Vivian. Compressed air magazine. v.40.
p.4815-4821. September 1935.

Economic aspects of Grand Coulee. H.E. Riggs. Electrical world.
v.106. p.3143-3145+ October 10, 1936.

Economic limits of the cost of water for irrigation; Wenatchee reclamation
district, Washington. R.P. Teele and Paul A. Ewing.
Washington, D.C., 1925. 35p. mimeographed.

- Enlargement and improvement of the main canal Sunnyside unit - Yakima project, Washington. E.A. Moritz and H.W. Elder. Engineering and contracting. v.38. p.301-306. September 11, 1912. Illustrated description of the plans for the enlargement methods and costs.
- Explosives and draglines excavate Kittitas canal in central Washington. Engineering and contracting. v.69. p.211-212. May 1930.
- Farm management problems on irrigated farms in hop and potato areas of the Yakima valley, Washington. E.R. Johnson and S.B. Nuckols. U.S. Department of agriculture. Department bulletin no.1388. Washington, D.C., 1926. 64p.
- Grand Coulee; the key to Columbia river power. Electrical west. v.72. p.18. February 1934.
- Grand Coulee dam. H. O'Connell. Compressed air magazine. v.40. p.4840-4844. October 1935.
- Hydrometry as an aid to the successful operation of an irrigation system. J.C. Stevens. American society of civil engineers. Transactions. v.71. p.314-348. 1911. A discussion of hydrographic work as conducted on the Sunnyside project of the U.S. Reclamation service, in Washington. Map and curves.
- Information concerning the Kittitas decision of the Yakima project, Washington. Elwood Mead, commissioner, Bureau of reclamation. Washington, D.C., U.S. Government printing office, 1929. 16p.
- Irrigated lands of the state of Washington. Geo M. Allen, deputy commissioner Washington Bureau of statistics and immigration. Olympia, Wash., E.L. Boardman, public printer, 1910. 96p.
- Irrigating the Yakima indian reservation. Letter from the secretary of the interior, transmitting a report and plans prepared by the superintendent of irrigation for District no.1, in the Indian service, on provisions for water supply for forty acres of each Indian allotment on the Yakima indian reservation, Washington. Washington, D.C., Government printing office, 1915. 10p. U.S. 63d congress. House. Document no.1472.
- Irrigation by flooding in the Big Bend section in Washington. A.B. Crane. Washington. State college. Department of extension. Bulletin no.146. Pullman, Wash., 1927. 11p.
- Irrigation development in Washington. R.K. Tiffany. Professional engineer. v.12. p.13. May 1927.
- Irrigation in Quincy valley. Journal of the Franklin institute. v.185. p.507-508. April 1918.

- Irrigation in the Spokane valley. L.J. Corbett. American institute of electrical engineers. Proceedings. v.31 part 1: p.383-394.
April 16 - 20, 1912 Remarks on the changes due to irrigation with description of methods used and information concerning costs.
- Irrigation in the state of Washington. O.L. Waller. U.S. Department of agriculture. Office of experiment stations. Bulletin no.214.
Washington, D.C., 1909. 64p.
- Irrigation in the Yakima valley, Washington. S.O. Jayne. U.S. Department of agriculture. Office of experiment stations. Bulletin no.188. Washington, D.C., 1907. 89p.
- Irrigation in Yakima county, Washington. A.B. Wyckoff. Scientific american supplement. v.43. p.17543-17544. January 16, 1897.
An illustrated description endeavoring to show the results of irrigation.
- Irrigation of agricultural lands. Washington statistics for state and counties. U.S. Bureau of the census. Washington, D.C., 1931.
12p.
- Irrigation west of the Cascades. L.J. Smith and H.L. Garver. Washington. Agricultural experiment station. Popular bulletin no.140.
Pullman, Wash., 1928. 52p.
- Land owners' association Horse Heaven project pass resolutions regarding proposed bond issues. Irrigation age. v.31. p.136.
July 1916.
- Laws of the state of Washington relating to irrigation districts. Fred J. Cunningham. Olympia, Wash., 1923. 117p.
- Laying out irrigated farm units by topography. G.C. Kreutzer. Engineering news record. v.99. p.276. August 18, 1929.
- Lining canals with concrete on the Yakima project. Engineering news record. v.103. p.722-775. November 7, 1929.
- Main features of Columbia basin irrigation project, Washington. O.L. Waller. Engineering news record. v.84. p.456. March 4, 1920.
- \$9,000,000 irrigation development; Kittitas division of the Yakima project. Engineering and contracting. v.65. p.245-246. November 1926.
- Okanogan irrigation district in Washington; hearings before the Committee on irrigation and reclamation, House of representatives, Seventieth congress, first session, on H.R. 7203 by Mr. Hill of Washington authorizing the secretary of the Interior to transfer the Okanogan project, in the state of Washington, to the Okanogan irrigation district upon payment of charges stated. December 20, 1927.
Washington, D.C., Government printing office, 1928. 29p.

Pasture irrigation. L.J. Smith and others. Washington, Agricultural experiment station. Bulletin no.313. Pullman, Wash., 1935. 28p.

Power, navigation and irrigation in two projects on the Columbia. Engineering news record. v.113. p.678-685. November 29, 1934.

Preliminary report on the Quincy valley irrigation project. Henry Landes and others. Olympia, Wash., E.L. Boardman, 1912. 49p.
Washington. Geological survey. Bulletin no.14.

Present and future development of the water resources of the state of Washington. Marvin Chase. Pacific builder and engineer. v.29. p.8-11. January 26, 1923. Includes tables of irrigated and irrigable lands.

Proceedings. Washington irrigation institute. 2d - 12th. 1914 - 1924. North Yakima, Wash., 1915 - 1925.

Production and utilization of corn grown under irrigation in Washington. H.P. Singleton. Washington, Agricultural experiment station. Bulletin no.278. Pullman, Wash., 1933. 22p.

Proposed Columbia basin irrigation project. Letter from the secretary of the interior transmitting report of the investigations of the proposed Columbia basin irrigation project conducted under authority of Senate joint resolution no.157, of December 22, 1924; also a financial statement showing the expenditures of money appropriated by the acts of Congress approved February 21, 1923, and December 22, 1924. Washington, D.C., Government printing office, 1925. 5p.
U.S. 69th congress. House. Document no.112.

A reconnoissance in southeastern Washington. Israel Cook Russell. Washington, D.C., Government printing office, 1897. 96p.
U.S. Geological survey. Water-supply and irrigation papers no.4.

Reclamation, a sound national policy; an inquiry into the effects of irrigation development on local, state and national economy as demonstrated by the Yakima valley and other irrigated areas in Washington. June 1936. Washington state planning council. Olympia, Wash., 1936. 118p. mimeographed.

Reconstruction of the Naches-Selah irrigation canal. E.M. Chandler. Engineering news record. v.83. p.276-279. August 7, 1919.

Rehabilitation of the Bitter Root irrigation project. Hearings before Senate committee on irrigation and reclamation. Washington, D.C., Government printing office, 1930. 22p.

Report. Washington irrigation commission. 1904 - date. Seattle, 1904 - date.

Report on irrigation conditions in the Yakima valley, Washington. Washington
Agricultural experiment station. Bulletin no.91. Pullman, Wash.,
1904. 29p.

Report on the condition of the Yakima indian reservation, Washington.
A letter from the secretary of the interior, transmitting a joint
report of the supervising engineer of the Reclamation service, superinten-
dent, and supervising irrigation engineer of the Indian service, on the
condition of the Yakima indian reservation ... Washington, D.C.,
Government printing office, 1913. 66p. U.S.
62d congress. House. Document no.1299.

State reclamation in Washington. R.K. Tiffany. American society of
civil engineers. Transactions. v.92. p.582-605. 1928.

Sunnyside irrigation canal; Washington irrigation company, proprietor ...
3d edition. Seattle, Wash., Lowman and Hanford stationery and printing
co., 1902. 80p.

\$300,000,000 irrigation project. Engineering and contracting. v.55.
p.146-147. February 9, 1921.

Unprecedented design involved in irrigation project. Engineering news
record. v.85. p.944-946. November 11, 1920.
To bring water 130 miles to 1,753,000 acre Columbia basin in
Washington. Viaduct, siphons and tunnels of unusual size.

Washington irrigation dream. E.V. Wilcox. Country gentleman. v.85.
p.12-13. September 25, 1920.

Water, the modern Aladdin; Kittitas irrigation project, Washington.
C.F.A. Mann. Scientific american. v.137.
p.510-512. December 1927.

Water relations of Yakima valley soil. C.S. Scofield. Journal of
agricultural research. v.37. p.65-85. July 15, 1928.

White Bluffs-Hanford land settlement experiment. H.W. Cooper.
Journal of electricity. v.54. p.313-315. May 1, 1925.

White Bluffs-Hanford land settlement in Washington. Engineering news.
v.95. p.765. November 5, 1925.

Yakima irrigation projects, Washington. Information compiled by United
States reclamation service, March 15, 1911. n.p., 1911.
30p.

WEST INDIES.

Aguas del canal del Roque pudieran utilizarse para regadío. A. Tagliarini.
Revista de agricultura. v.18. p.110-115.
January 1936.

Cane field irrigation and malaria. W.C. Earle. Sugar. v.28.
p.384-385. August 1926.

Concerning the construction and operation of the hydroelectric and irrigation systems of the South Coast and of the Hydro-electric system of utilization of the water resources of the government of Puerto Rico.

Antonio Lucchetti. Puerto Rico. Department of the interior.
Bulletin. San Juan, P.R., 1936. 52p.

Cooperación del gobierno al desarrollo agrícola. J. Cabrera y Polo.
Revista de agricultura. v.12. p.39-40. May 1931.

Culture of the banana in Jamaica. Journal of the Jamaica agricultural society. v.37. p.347-350, 461-473. July, September 1933.

Implement tillage for irrigation. R.L. Page. Journal of the department of agriculture of Porto Rico. v.8. p.16-21.
April 1924.

La irrigación en las tierras de cultivo. A. de J. Gonzáles.
La Hacienda. v.25. p.291-295. July 1930.

L'irrigation de la canne à sucre à Cuba. J. de Vilmorin. Academie d'agriculture de France. Comptes rendus. v.16. p.618-630.
May 28, 1930.

Irrigation in the West Indies, being a simple plan by which they may be perpetuated as valuable and productive sugar colonies. Edward McGeachy.
Kingston, Jamaica, 1846. 78p.

Irrigation (proceedings of a meeting of sugar planters, held at Central Fajardo, August 15, 1912) San Juan, Times publishing co., 1912.
25p.

Irrigation, water supplies, chiefly wells. Journal of the Jamaica agricultural society. v.34. p.58. February 1930.

Irrigation rescue. H.G. DeLisser. Stone and Webster. Journal. v.46. p.162-174. February 1930. Use of electric motor and pump in irrigation projects in island of Jamaica; pumping plant at Caynanas estate cultivate 888 acres of land.

New irrigation plant in Santo Domingo. Pan American union. Bulletin. v.60. p.697-699. July 1926.

Perspectiva del regadio en Cuba en relacion con el cultivo del arroz. J. Garcia Montes. Revista de agricultura. v.14. p.6-16.
March 1934.

- Porto Rican irrigation project has novel features. R.A. Gonzalez.
Engineering news record. v.90. January 25, 1923.
p.161-164. Sink holes in reservoir site to be sealed by clay; hauled-
in material for high earth dam to be sluiced to place; work involves
expenditure of more than \$3,000,000.
- Porto Rico irrigation service. W.L. Squire and F.H. Knapp. Cornell
civil engineer. v.21. p.431-448. May 1913.
Map and details of the project.
- Present status of sugar cane irrigation in Cuba; abstract. J.T. Crawley.
International sugar journal. v.32. p.521-522.
October 1930.
- Progress of cane field irrigation in Cuba. Facts about sugar. v.25.
p.77-78. January 25, 1930.
- Proposed construction of the Porto Rico irrigation service. B.M. Hall.
Engineering news. v.61. p.568-569. May 27, 1909.
A statement of the South Coast irrigation project in Porto Rico.
- Regadio en el Valle de Güines. J.A. Cosculluela. Habana, Imp. y papeleria
de Ruiz y ca, 1914. 206p.
- El regadio en relacion con el cultivo del arroz. J. Garcia Montes and
F. Malberti. Revista de agricultura. v.13. supplement, p.82-84.
February 1932.
- Report on irrigation possibilities in the Republic of Haiti, from the
engineer in chief, to the Secretary of state for public works; a
summary report on various irrigation and hydroelectric investigations
throughout the republic. Port-au-Prince, Cie Lithographique
d'Haiti, 1927. 6lp.
- El riego. V.M. Molina. Revista de agricultura. v.15. p.52-53.
March 1935.
- Riego en Dominicana. Sugar. v.28. p.446. September 1926.
- Servicio de riego de la costa sur y utilizacion de las fuentes fluviales.
A.A. Luchetti. Revista de obras publicas de Puerto Rico. v.7.
p.288-292. November 1930. Irrigation service of South Coast
and utilization of fluvial sources. Weather conditions and water supply;
irrigation system and its operation; financial statement. Report of
managing engineer to Commissioner of interior.
- Servicio del riego de Isabela. R.A. Gonzalez. Revista de obras publicas
de Puerto Rico. v.7. p.251-255, 293-296. October, November, 1930.
Isabela irrigation service. System in operation two years; rainfall in
1930 below normal; hydroelectric system, with practically constant load
of 980 hp. throughout year; irrigated area, by crops; legal division;
organization and personnel; accounting. Due partly to prevalent economic
depression, irrigators who use water and municipalities that receive
electric current are in arrears on payments; rainfall data; financial
statement. Report of chief engineer to Commissioner of interior.

Sugar cane irrigation in Cuba. J.T. Crawley. Facts about sugar.
v.25. p.205-208. March 1, 1930.

Three essential elements in a new irrigation project; abstract.
W.P. Alexander. International sugar journal. v.32.
p.522-524. October 1930.

WESTERN STATES.

After the great drouth. W.V. Woehlke. Sunset. v.53. p.41-43.
December 1924.

American desert and its new water works. Arthur P. Davis. American water
works association. Proceedings, v.28. p.459-469.
1908. Brief illustrated account of the large irrigation projects
in arid areas of the United States.

Authorizing the secretary of the interior to adjust or eliminate reimbursable
debts of Indians. Hearings before the Committee on Indian affairs, U.S.
Senate, 72d congress, 1st session on H.R. 8898, an act authorizing the
deferring of collection on construction costs against Indian lands
within irrigation projects and for other purposes, and H.R. 10884, an
act to authorize the secretary of the interior to adjust reimbursable
debts of Indians and tribes of Indians. May 25 and 26, 1932.
Washington, D.C., U.S. Government printing office, 1932. 41p.

Better country. Dana W. Bartlett. Boston, Mass., C.M. Clark
publishing co., 1911. 554p.

Bewässerungs gebiete in westen der vereinigten staaten von Amerika.
August Pöttgen. Quakenbrück, Werkdruckerei von R. Kleinert, 1929.
120p.

Carey act projects. Report of a committee appointed by the secretary of the
interior to make an investigation into and report upon the history and
present condition of the Carey act projects. Washington, D.C.,
U.S. Government printing office, 1913. 22p. U.S.
62d congress. Senate. Document no.1097.

Ceding the arid lands to the states and territories. February 11, 1891.
Committed to the Committee of the whole house on the state of the union
and ordered to be printed. Washington, D.C., Government printing
office, 1891. 202p. U.S. 51st congress. House.
Report no.3761.

Civil engineers study irrigation and high dams. Engineering news record.
v.101. p.553-555. October 11, 1928. Two major
problems of west outstanding topics of San Diego meeting of American
society of civil engineers; addresses on civil and naval aviation, roads
and sewage-treatment problems.

Colorado river and its proposed development; the Boulder Canyon project.
D.W. Mead. Western society of engineers. Journal. v.34.
p.397-422. July 1929.

- Columbia basin project to cost two hundred millions. Engineering news.
v.94. p.400. March 5, 1925.
- Common earthworm as a serious economic problem. C.T. Hurst.
Science. v.74. p.656. December 25, 1931.
- Conquest of arid America. William E. Smythe. New York, Harper and
brothers, 1900. 325p.
- Co-Ordination of irrigation and power. W. Kelly. American society of
civil engineers. Transactions. v.89. p.1429-1484.
1926.
- Co-ordination of power and irrigation interests. J.C. Stevens.
Electrical west. v.59. p.73-76. August 1927.
- Desert irrigation in the far west. L.R. Freenan. Review of reviews.
v.29. p.305-311. March 1904.
- Development of the west. Articles on western topics, entitled: "Watering the
desert," "National irrigation as a social problem," and "Dry farming".
Francis G. Newlands. Washington, D.C., U.S. Government printing
office, 1914. 16p. U.S. 63d congress. Senate.
Document no.588.
- Development of the west under irrigation. C.E. Grunsky. Engineering
news. v.91. p.715-718. November 1, 1923.
- Distribution and utilization of flood waters; work of the Nakai Bito
(Mexican Springs) experiment station in the Navajo lands. M.E. Musgrave.
Science. v.82. p.461-462. November 15, 1935.
- Economic justification for land reclamation activities. E. Mead.
Agricultural engineering. v.11. p.87-90. March 1930.
- End of a chapter in reclamation. J.A. Widtsoe. Country gentleman.
v.91. p.25+ December 1926.
- Experimenting with irrigation in the middle west. Electrical world.
v.92. p.744. October 13, 1928. Installation
has been made on Brown experimental farm 2 mi. west of Gibbon, Neb.;
well on which experiments are being conducted is 58 ft. deep and contains
about 45 ft. of water; pump which is of deep-well turbine type, is driven
at 1150 r.p.m. by 10-hp. motor built into well head.
- Federal land reclamation: a national problem. F.H. Newell. Engineering
news. v.91. p.666-673. October 25, 1923.
- Federal land reclamation: a national problem. C.S. Scofield. Engineering
news. v.91. p.756-761. November 8, 1923.
- Future of reclamation. E. Mead. Country gentleman. v.89.
p.7+ November 29, 1924.

- Government irrigation and the settler. California, Oregon, Nevada and Arizona. Including a description of the Imperial valley project. A.J. Wells. San Francisco, Passenger department, Southern Pacific, 1910. 63p.
- Guide to irrigation practice on the Pacific coast. San Francisco, Cal., National irrigation congress, Publicity committee, 1907. 30p.
National irrigation congress. Publicity series. Bulletin no.4.
- Hearings before the Committee on irrigation of arid lands of the House of representatives relating to projects for the irrigation of arid lands under the National irrigation act and the work of the division of irrigation investigations of the Agricultural department in connection with irrigation of arid lands. Washington, D.C., U.S. Government printing office, 1905. 159p. U.S. 58th congress.
House. Document no.381.
- High plains and their utilization. Willard D. Johnson. Washington, D.C., U.S. Government printing office, 1901-1902. 2 parts.
Extracts from the 21st - 22d annual report of the U.S. Geological survey, part IV, 1899/1900 - 1900/1901.
- History and problems of irrigation development in the west. J.A. Widtsoe. American society of civil engineers. Transactions. v.90. p.680-705. 1927.
- History of irrigation in the west. A.T. Steinel. California cultivator. v.68. p.5. January 1, 1927.
- Irrigatie en landont-ginning (reclamation) in het westen der vereenigde Staten van Noord-Amerika. R.A. van Sandick. 's-Gravenhage, F.J. Belinfante, 1905. 24p.
- Irrigatiewezen in het westen der vereenigde staten van Noord-Amerika. P.J. Ott de Vries. Batavia, 1910. 103p.
Tijdschrift van het Koninklijk instituut van ingenieurs, afdeling nederlandsch - Indië, 1909-1910. Aflevering I.
- Irrigation - a national problem. R.K. Tiffeny. Civil engineering. v.1. p.1081-1086. September 1931.
- Irrigation and alkali. H.F. Kenyon. California cultivator. v.82. p.216. April 13, 1935.
- Irrigation and intense culture in other countries. Series of articles dealing with agriculture in Italy and America. H.S. Gullett. Melbourne, J. Kemp, Government printer, 1910. 37p.
- Irrigation and the land-use program. J.W. Haw. Civil engineering. v.6. p.663-667. October 1936.
- Irrigation and water power. R.R. Wooley. Professional engineer. v.12. p.5-6+ September 1927.

- Irrigation and water storage in the arid regions. Letter from the secretary of war, transmitting a report of the chief signal officer of the army, in response to House resolution dated May 23, 1890, relating to irrigation and water storage in the arid regions ... Washington, D.C., Government printing office, 1891. 356p. U.S. 51st congress. House. Ex. document no.287.
- Irrigation by electric power. Allen E. Ransom. Electric journal. v.8. p.121-127. February 1911. Reviews the results of irrigation in the western part of the United States, and shows the part electricity has had in the development.
- L'irrigation dans l'ouest des États-Unis d'Amerique. Précédée de quelques thèses sur les irrigations dans les colonies et les pays neufs. R.A. van Sandick. Bruxelles, Imprimerie et lithographie Ve A. Mertens et fils, 1905. 117p.
- Irrigation development through irrigation districts. E.C. Eaton and F. Adams. American society of civil engineers. Transactions. v.90. p.773-790. 1927.
- Irrigation districts, their organization, operation and financing. W.A. Hutchins. U.S. Department of agriculture. Technical bulletin no.254. Washington D.C., 1931. 94p.
- Irrigation in the arid west. Harpers weekly. v.46. p.62. January 11, 1902.
- Irrigation in the Rocky mountain states. J.C. Ulrich. U.S. Department of agriculture. Office of experiment stations. Bulletin no.73. Washington, D.C., 1899. 64p.
- Irrigation in the western states of the United States of America. R.G. Kennedy. Calcutta, 1903. 35p. India. Punjab irrigation department. Technical paper no.157.
- Irrigation needs and possibilities of the Great Plains. Engineering news. v.95. p.631. October 15, 1925.
- Irrigation opportunities and duties of federal government in western land reclamation. F.H. Newell. Engineering news. v.90. p.28-29. January 4, 1923.
- Irrigation profiteers. E. Mead. Country gentleman. v.89. p.6. December 20, 1924.
- Irrigation projects. F.C. Lyman. Yale science magazine. v.18. p.371-375. April 1912. Brief notes on reclamation projects being carried out in the western part of the United States.
- Irrigation requirements of the arable lands of the Great basin. S. Fortier. U.S. Department of agriculture. Department bulletin no.1340. Washington, D.C., 1925. 56p.

- Irrigation requirements of the arid and semi-arid lands of the Columbia river basin. S. Fortier and A.A. Young. U.S. Department of agriculture. Technical bulletin no.200. Washington, D.C., 1930. 55p.
- Irrigation requirements of the arid and semi-arid lands of the Pacific slope basins. S. Fortier and A.A. Young. U.S. Department of agriculture. Technical bulletin no.379. Washington, D.C., 1933. 69p.
- Irrigation situation. George M. Bull. Engineering record. v.65. p.222-223. February 24, 1912. Discusses irrigation developments in the western United States.
- Irrigation west of the Cascades. L.J. Smith and H.L. Garver. Washington. Agricultural experiment station. Popular bulletin no.140. Pullman, Wash., 1928. 52p.
- Irrigation work in the Indian bureau. Engineering news. v.110. p.712-714. June 1, 1933.
- Irrigation works constructed by the United States government. Arthur Powell Davis. New York, J. Wiley & sons, inc., 1917. 413p.
- Issue of certificate by water users' association. Hearings before the Committee on irrigation, United States senate ... Washington, D.C., Government printing office, 1908. 17p. U.S. 60th congress. Senate. Document no.507.
- Letter from the secretary of agriculture, transmitting a report on the preliminary investigation to determine the proper location of artesian wells within the area of the ninety-seventh meridian and east of the foot-hills of the Rocky mountains ... Washington, D.C., Government printing office, 1890. 398p.
- Measurement of irrigation water. U.S. Bureau of reclamation. 4th edition. Washington, D.C., Government printing office, 1935. 51p.
- New acres and power; federal bureau of reclamation is about to become a factor in hydroelectric generation. W.E. Warne. Public utilities. v.18. p.464-472. October 8, 1936.
- Notes on western reclamation; summary of an editor's inspection trip. W.W. DeBerard. Engineering news. v.93. p.898-900, 948-950. December 4 - 11, 1924.
- Operating problems on the federal irrigation projects. G.O. Sanford. Agricultural engineering. v.14. p.245-247. September 1933.
- Orchard irrigation. S. Fortier. U.S. Department of agriculture. Farmers' bulletin no.1518. Washington, D.C., 1927. 27p.

- Planning the use of our irrigation resources. F. Adams. Agricultural engineering. v.17. p.325-328. August 1936.
- Practical points on irrigation. Sugar. v.25. p.134-135. March 1923.
- Problems of semi-arid west are discussed at Denver meeting of Association of western state engineers. Engineering news record. v.105. p.826-827. November 20, 1930.
- Problems of the arid region. E. Mead. Outlook. v.66. p.336-344. October 6, 1900.
- Progress in reclamation of arid lands in the western United States. F.H. Newell. U.S. Smithsonian institution. Report, 1910. Washington, D.C., 1911. p.169-198.
- Progress in reclamation of arid lands in the western United States. J.B. Beadle. U.S. Smithsonian institution. Report, 1915. Washington, D.C., 1916. p.467-488.
- Progress of irrigation in the west. Scientific american supplement. v.50. p.20870-20871. December 15, 1900.
- Recent irrigation work on Navaho reservation. Cosmos Mindeleff. Scientific american. v.76. p.52-55. January 23, 1897. A brief illustrated account of the work to benefit the reservation, but largely devoted to description of the tribe inhabiting the region.
- Reclaiming reclamation; government's new irrigation plan. H. Work. Country gentleman. v.89. p.8+ August 30, 1924.
- Reclaiming the arid west. A.O. Brodie. Cosmopolitan. v.37. p.715-722. October 1904.
- Reclaiming the arid west; the story of the United States reclamation service. George Wharton James. New York, Dodd, Mead and company, 1917. 411p.
- Reclaiming the west. J.D. Whelpley. Harpers weekly. v.47. p.941-945. June 6, 1903.
- Reclamation bonds. Hearings before the Committee on ways and means of the House of representatives, 61st congress, 2d session on H.R. 18398, H.R. 19079, H.R. 21893, and S.5705, February 5, March 8, 10, 11, 14, 15, 17, 28, 30, 1910. Washington, D.C., Government printing office, 1910. 265p.
- Reclamation of the west. F.H. Newell. U.S. Smithsonian institution. Annual report, 1903. Washington, D.C., 1904. p.827-841.

Irrigation requirements of the arid and semi-arid lands of the Columbia river basin. S. Fortier and A.A. Young. U.S. Department of agriculture. Technical bulletin no.200. Washington, D.C., 1930. 55p.

Irrigation requirements of the arid and semi-arid lands of the Pacific slope basins. S. Fortier and A.A. Young. U.S. Department of agriculture. Technical bulletin no.379. Washington, D.C., 1933. 69p.

Irrigation situation. George M. Bull. Engineering record. v.65. p.222-223. February 24, 1912. Discusses irrigation developments in the western United States.

Irrigation west of the Cascades. L.J. Smith and H.L. Garver. Washington. Agricultural experiment station. Popular bulletin no.140. Pullman, Wash., 1928. 52p.

Irrigation work in the Indian bureau. Engineering news. v.110. p.712-714. June 1, 1933.

Irrigation works constructed by the United States government. Arthur Powell Davis. New York, J. Wiley & sons, inc., 1917. 413p.

Issue of certificate by water users' association. Hearings before the Committee on irrigation, United States senate ... Washington, D.C., Government printing office, 1908. 17p. U.S. 60th congress. Senate. Document no.507.

Letter from the secretary of agriculture, transmitting a report on the preliminary investigation to determine the proper location of artesian wells within the area of the ninety-seventh meridian and east of the foot-hills of the Rocky mountains ... Washington, D.C., Government printing office, 1890. 398p.

Measurement of irrigation water. U.S. Bureau of reclamation. 4th edition. Washington, D.C., Government printing office, 1935. 51p.

New acres and power; federal bureau of reclamation is about to become a factor in hydroelectric generation. W.E. Warne. Public utilities. v.18. p.464-472. October 8, 1936.

Notes on western reclamation; summary of an editor's inspection trip. W.W. DeBerard. Engineering news. v.93. p.898-900, 948-950. December 4 - 11, 1924.

Operating problems on the federal irrigation projects. G.O. Sanford. Agricultural engineering. v.14. p.245-247. September 1933.

Orchard irrigation. S. Fortier. U.S. Department of agriculture. Farmers' bulletin no.1518. Washington, D.C., 1927. 27p.

- Planning the use of our irrigation resources. F. Adams. Agricultural engineering. v.17. p.325-328. August 1936.
- Practical points on irrigation. Sugar. v.25. p.134-135. March 1923.
- Problems of semi-arid west are discussed at Denver meeting of Association of western state engineers. Engineering news record. v.105. p.826-827. November 20, 1930.
- Problems of the arid region. E. Mead. Outlook. v.66. p.336-344. October 6, 1900.
- Progress in reclamation of arid lands in the western United States. F.H. Newell. U.S. Smithsonian institution. Report, 1910. Washington, D.C., 1911. p.169-198.
- Progress in reclamation of arid lands in the western United States. J.B. Beadle. U.S. Smithsonian institution. Report, 1915. Washington, D.C., 1916. p.467-488.
- Progress of irrigation in the west. Scientific american supplement. v.50. p.20870-20871. December 15, 1900.
- Recent irrigation work on Navaho reservation. Cosmos Mindeleff. Scientific american. v.76. p.52-55. January 23, 1897. A brief illustrated account of the work to benefit the reservation, but largely devoted to description of the tribe inhabiting the region.
- Reclaiming reclamation; government's new irrigation plan. H. Work. Country gentleman. v.89. p.8+ August 30, 1924.
- Reclaiming the arid west. A.O. Brodie. Cosmopolitan. v.37. p.715-722. October 1904.
- Reclaiming the arid west; the story of the United States reclamation service. George Wharton James. New York, Dodd, Mead and company, 1917. 411p.
- Reclaiming the west. J.D. Whelpley. Harpers weekly. v.47. p.941-945. June 6, 1903.
- Reclamation bonds. Hearings before the Committee on ways and means of the House of representatives, 61st congress, 2d session on H.R. 18398, H.R. 19079, H.R. 21893, and S.5705, February 5, March 8, 10, 11, 14, 15, 17, 28, 30, 1910. Washington, D.C., Government printing office, 1910. 265p.
- Reclamation of the west. F.H. Newell. U.S. Smithsonian institution. Annual report, 1903. Washington, D.C., 1904. p.827-841.

- Reclamation policy held sound in committee report; with cost data.
Engineering news record. v.114. p.167-169.
January 31, 1935.
- Rehabilitation of irrigation districts. W.W. McLaughlin. Agricultural
engineering. v.11. p.116-118. March 1930.
- Relation of reclamation of arid land by irrigation to the national land use
program; abstract and discussion. J.W. Haw. Engineering news
record. v.117. p.125-126. July 23, 1936.
- Report. 1st - date. 1928 - date. -Western irrigation and drainage research
association. Tucson, Ariz., 1928 - date.
- Report against Columbia basin irrigation project. Engineering news.
v.95. p.502-503. September 24, 1925.
- Report of Committee on arid lands and irrigation, presented at the annual
meeting of the National association of agricultural implements and
vehicle manufacturers held at Chattanooga, Tennessee, November 16,17,18,
1904 ... n.p., 1904. 48p.
- Report on agriculture by irrigation in the western part of the United States
at the eleventh census: 1890. F.H. Newell. Washington, D.C.,
Government printing office, 1894. 336p.
- Report on the climate of Colorado and Utah, with particular reference to
questions of irrigation and water storage in the arid region. A.W. Greely...
Extract from a letter of the secretary of war on irrigation and water
storage in the arid regions. Washington, D.C., Government printing
office, 1891. 70p. U.S. 51st congress. House.
Ex. document no.287.
- Report on the lands of the arid region of the United States, with a more
detailed account of the lands of Utah. With maps. J.W. Powell.
2d edition. Washington, D.C., Government printing office, 1879.
195p.
- Washington, D.C.,
Government printing office, 1878. 195p. U.S. 45th
congress. House. Ex. document no.73.
- Review of the important advances in irrigation since 1900.
Agricultural engineering. v.5. p.9-11,32-34.
January - February 1924.
- Some agricultural engineering problems of western irrigation practice.
S.H. Beckett. Agricultural engineering. v.6. p.228-229.
October 1925.
- Spare that desert! O.P. White. Collier's. v.93.
p.10-11+ June 16, 1934.

- Status of water development in the eleven western states; a symposium.
Engineering news record. v.106. p.428-431.
March 12, 1931.
- Storage reservoirs - the arid-land question. Speech of Hon. Francis G. Newlands
... in the House of representatives, Wednesday, January 9, 1901.
Washington, D.C., Government printing office, 1901. 30p.
- Struggle for water in the west. W.E. Smythe. Atlantic monthly. v.86.
p.646-654. November 1900.
- Success on irrigation projects. John A. Widtsoe. New York, J. Wiley
& sons, inc., 1928. 153p.
- Suggestions for the irrigation of western lands to procure employment and
homes for the laboring people of the United States. Frank Foley.
Chicago, 1894. 20p.
- Summary of irrigation-district statutes of western states. W.A. Hutchins.
U.S. Department of agriculture. Miscellaneous publication no.103.
Washington, D.C., 1931. 126p.
- Tale of Uncle Sam's voyage in an irrigation ditch. G. Garrett.
Saturday evening post. v.197. p.8-9. January 17, 1925.
- Through the reclamation country. F.E. Schmitt. Engineering news.
v.91. p.566, 603-604, 636, 676-677, 722-723, 766-777.
October 4 - November 8, 1923.
- Types of irrigation in the west. G.E. Walsh. Gunton. v.21.
p.339-348. October 1901.
- Typical reservoirs in the Rocky mountain states. E. Mead. U.S.
Department of agriculture. Yearbook, 1901. Washington, D.C.,
1902. p.415-430.
- Uncle Sam's farm. Reclamation of the arid region of the United States by
means of irrigation. Joseph Nimmo, jr. Washington, Gibson bros.,
printers, 1890. 43p.
- Use flood waters for irrigating farms. B. Ferguson. Dakota farmer.
v.43. p.643+ July 15, 1923.
- Use of windmills in irrigation in the semiarid west. P.E. Fuller.
U.S. Department of agriculture. Farmers' bulletin no.866.
Washington, D.C., 1917. 38p.
- Use of windmills in irrigation on the high plains. E.P. Eshbaugh.
Panhandle. Agricultural experiment station. Bulletin no.16.
Goodwell, Okla., 1930. 13p.

Wasser-verwendung und verteilung im ariden westen von Nordamerika, unter
berücksichtigung der verschiedenen methoden methoden der bewässerungswirt-
schaft. Georg Alfred Plehn. Hamburg, L. Friederichsen & co., 1911.
85p.

Water and wealth; irrigated valley of the Salt river. G. Marvin.
Outlook. v.140. p.425-428. July 22, 1925.

Water penetration in the gumbo soils of the Belle Fourche reclamation
project. O.R. Mathews. U.S. Department of agriculture.
Department bulletin no.447. Washington, D.C., 1916. 12p.

Western irrigation and culture. Market growers journal. v.43.
p.62-64. January 15, 1931.

Water utilization in the Snake river basin. W.G. Hoyt. Washington,
D.C., 1935. 379p. U.S. Geological survey.
Water supply paper no.657.

Winning the west. C.J. Blanchard. National geographic magazine.
v.17. p.82-100. February 1906.
An illustrated account of the progress of the reclamation service in
reclaiming the desert.

Winning the west by irrigation. Stone and Webster journal. v.21.
p.184-198. September 1917.

Work of the reclamation service. F.H. Newell. U.S. Smithsonian
institution. Annual report, 1904. Washington, D.C.,
1905. p.373-381.

WYOMING.

Annual report. 1890 - date. Wyoming. Engineering department.
Cheyenne, Wyo., 1890 - date.

Biennial report. 1892 - date. Wyoming. State engineer's office.
Cheyenne, Wyo., 1892 - date.

Building the guernsey irrigation and power dam. F.F. Smith.
Engineering news record. v.100. p.264-268.
February 16, 1928.

Casper-Alcova irrigation project held legally unsafe. Engineering news
record. v.114. p.138+ January 24, 1935.

Casper-Alcova irrigation project, Wyoming. Letter from the secretary of the
interior transmitting engineering report by J.R. Takisch, engineer, and
land classification and economic report by W.W. Johnston, associate
reclamation economist, Bureau of reclamation. Washington, D.C.,
U.S. Government printing office, 1931. 112p. U.S. 71st
congress. House. Document no.674.

Casper-Alcova project in Wyoming. Hearings before the Committee on irrigation and reclamation. House of representatives, 70th congress, 1st session on H.R. 5743, by Mr. Winter, a bill to provide for the storage for diversion of the waters of the north Platte river and construction of the Casper-Alcova reclamation project. Washington, D.C., U.S. Government printing office, 1928. 108p.

Construction of Casper-Alcova division, North Platte project Nebraska - Wyoming. Hearings before a subcommittee of the Committee on irrigation and reclamation, U.S. Senate 72d congress, 1st session on S. 2842, a bill to authorize construction of the Casper-Alcova division, North Platte project Nebraska-Wyoming. March 17 and 18, 1932. Washington, D.C., U.S. Government printing office, 1932. 107p.

Design and construction of the Willwood diversion dam. I.E. Houk. Engineering and contracting. v.67. p.232-234. May 1928.

Diversion and outlet tunnel for Casper-Alcova dam. Engineering news record. v.114. p.250-252. February 14, 1935.

Economic limits of cost of water for irrigation; the Wyoming development company, Wyoming. R.P. Toebe and Paul A. Ewing. Washington, D.C., 1925. 38p. mimeographed. U.S. Department of agriculture. Bureaus of agricultural economics and public roads.

Economic studies of irrigated farms in Big Horn county. A.F. Vass and H. Pearson. Wyoming. Agricultural experiment station. Bulletin no.205. Laramie, Wyo., 1935. 137p.

Example of irrigation in the arid region of the United States. George Frederick Vollmer. Institution of civil engineers. Minutes of proceedings. v.162. p.363-369. 1904-1905. A description of a typical irrigation scheme which has been carried out by a private company called the Wyoming development company.

Experiments in supplemental irrigation with small water supplies at Cheyenne, Wyo., in 1909. John H. Gordon. U.S. Department of agriculture. Office of experiment stations. Circular no.95. Washington, D.C., 1910. 11p.

Explosives help to irrigate Wyoming farmlands. F.L. McGanney, jr. Explosives engineering. v.10. p.96-97. March 1932.

Geology and water resources of the Patrick and Goshen Hole quadrangles in eastern Wyoming and western Nebraska. George I. Adams. Washington, D.C., Government printing office, 1902. 50p. U.S. Geological survey. Water supply and irrigation paper no.70.

Geology of the Alcova dam and reservoir sites, North Platte river, Natrona county, Wyoming. W.H. Bradley. Economic geology. v.30. p.147-165. March 1935.

- Hot and cold water for crops. E.V. Wilcox. Country gentleman. v.55.
p.5+ December 11, 1920..
- Irrigation and power on the North Platte river. Engineering news record.
v.113. p.698-702. November 29, 1934.
- Irrigation easements, Yellowstone park. Hearings ... on H.R. 12466.
March 20 and 23, 1920. Washington, D.C., Government printing
office, 1920. 22p.
- Irrigation in Wyoming. Clarence T. Johnston. U.S. Department of
agriculture. Office of experiment stations. Bulletin no.205.
Washington, D.C., 1909. 60p.
- Irrigation investigations on the North Platte river in 1904. B.P. Fleming.
Wyoming. Agricultural experiment station. Bulletin no.66.
Laramie, Wyo., 1905. 24p.
- Irrigation laws of Wyoming, codified from the Revised statutes of 1899,
and the session laws of 1901, 1903 and 1905. Prepared for publication in
the office of the state engineer, Cheyenne, Wyo., June 1905. Published
as a supplement to the 7th biennial report of the state engineer ...
Laramie, Wyo., Laramie Republican company, printers, 1905. 46p.
- Irrigation laws of Wyoming, codified from the Revised statutes of 1899 and
session laws of 1901, 1903, 1905, 1907 and 1909. May, 1909. Prepared for
publication in the office of the state engineer, Cheyenne, Wyoming, and
published for the convenience of irrigators, engineers and attorneys.
Cheyenne, Wyo., The S.A. Bristol co., printers, 1909. 102p.
- Irrigation laws of Wyoming, in effect September 1, 1913, compiled by A.J.
Parshall. Laramie, Wyo., Laramie Republican company, printers,
1913. 8lp.
- Irrigation of agricultural lands. Wyoming statistics for state and
counties. U.S. Bureau of the census. Washington, D.C., Government
printing office, 1931. 12p.
- Irrigation projects in Wyoming. W.C. Deming. Independent.
v.62. p.1079-1085. May 9, 1907.
- Irrigation settlers require aid in Wyoming. J.B. True. Engineering record.
v.75. p.394. March 10, 1917.
- Kendrick launches plans for Wyoming irrigation amendments.
Irrigation age. v.33. p.148. July 1918.
- New design features in Willwood diversion dam. I.E. Houk.
Engineering news. v.99. p.660-664. October 27, 1927.

North Platte irrigation project. E.H. Simpson. Engineering world.
v.31. p.3-5. July 1927. Reclamation of 237,000
acres of idle land in Wyoming and Nebraska is assured by extensive
government project of which the New Guernsey dam is important factor.

North Platte irrigation project Nebraska - Wyoming. Information compiled by
United States reclamation service, November 15, 1909. n.p., 1909.
34p.

North Platte project today. J.F. Springer. Scientific american.
v.123. p.629+ December 25, 1920.

Power and irrigation work financed by FWA. Engineering news record.
v.111. p.251-253. August 31, 1933. Outline of
irrigation and hydroelectric power developments in Wyoming, financed
by allocation of \$22,700,000 of federal funds of Public works administration;
Seminole reservoir will be formed by concrete gravity dam 277 ft. maximum
height; Casper-Alcova project for irrigation of 66,000 acres will include
earth and rock-fill dam 235 ft. maximum height; reservoir operation;
interstate problems.

Preliminary examination of reservoir sites in Wyoming and Colorado; letter
from the secretary of war, transmitting a letter from the chief of
engineers, together with a report from Captain Chittenden of a preliminary
examination made by him of certain reservoir sites in the states of
Wyoming and Colorado. Washington, D.C., Government printing office,
1898. 110p.

Progress report on experiments in supplemental irrigation with small water
supplies at Cheyenne and Newcastle, Wyoming, 1905-1908. O.W. Bryant...
U.S. Department of agriculture. Office of experiment stations.
Circular no.92. Washington, D.C., 1910. 51p.

Proposed irrigation system of the Wyoming central irrigation co. for the
ceded portion of the Shoshone or Wind river indian reservation.
H.G. Raschbacher. Purdue engineering review. v.3.
p.20-31. 1907. An account of the surveys made and
specifications agreed upon.

Reclamation of the North Platte valley. W.S. Coulter. Popular science
monthly. v.70. p.372-377. April 1907.
An illustrated description of the North Platte irrigation project.

Remarkable combination of state and corporate action in a Wyoming irrigation
system. Engineering news. v.56. p.653. December 20, 1906.
An outline of a novel plan for the development of irrigation for a
portion of the Shoshone indian reservation in Wyoming opened for settle-
ment June 15, 1906.

- Shoshone project in Wyoming. Hearings before the Committee on irrigation and reclamation, House of representatives, 74th congress, 1st session, on the H.R. 6875, a bill providing for the allocation of net revenues of the Shoshone power plant of the Shoshone reclamation project in Wyoming. May 2 and 6, 1935. Washington, D.C., U.S. Government printing office, 1935. 28p.
- Some methods and costs of irrigation construction on the Rock creek conservation co's. project at Rock river, Wyoming. W. D'Rohan. Engineering and contracting. v.36. p.688-691. December 27, 1911.
- Stream gaugings and other studies relating to irrigation in Wyoming. Elwood Mead. Engineering news. v.40. p.420-421. December 29, 1898. Extracted from a forthcoming annual report. A statement of the conditions of streams and the influence of subterranean waters.
- Tunnel-canal-siphon outlet of Casper-Alcova reservoir. Engineering news record. v.115. p.385-388. September 19, 1935.
- Truckee-Carson project of the United States reclamation service. W.P. Hardesty. Engineering news. v.56. p.391-401. October 18, 1906. An illustrated detailed description of this great engineering project for the reclamation of about 350,000 acres of land, at an estimated cost of \$9,000,000.
- Use of water in irrigation in Wyoming and its relation to the ownership and distribution of the natural supply. B.C. Buffum. U.S. Department of agriculture. Office of experiment stations. Bulletin no.81. Washington, D.C., 1900. 56p.
- Vast undeveloped empire. T.S. Parsons. Dairy farmer. v.17. p.1114. December 1, 1919.
- Water-right problems of the Bighorn mountains. Elwood Mead. Washington, D.C., Government printing office, 1899. 62p. U.S. Geological survey. Water supply and irrigation paper no.23.
- Wind river project, Wyoming. Letter from the secretary of interior transmitting report of the reclamation service on the Wind river, Wyoming project. U.S. Bureau of reclamation. Washington, D.C., Government printing office, 1917. 90p. U.S. 64th congress. House. Document no.1767.
- Wyoming as an agricultural state; address on the reclamation of the arid lands before the Cheyenne chamber of commerce, January 16, 1894. Elwood Mead. Cheyenne, Wyo., Tribune job print, 1894. 16p.
- Yellowstone river, Wyo., Mont., and N. Dak. Letter from the secretary of war transmitting pursuant to section 1 of the River and harbor act approved

January 21, 1927, and section 10 of the Flood control act approved May 15, 1928, a letter from the chief of engineers, U.S. Army, dated February 9, 1934, submitting a report, together with accompanying papers and illustrations containing a general plan for the improvement of the Yellowstone river Wyo., Mont., and N. Dak., for the purposes of navigation and efficient development of its water power, the control of floods, and the needs of irrigation. Washington, D.C., U.S. Government printing office, 1934. 176p. U.S. 73d congress. House. Document no.256.

AUTHOR INDEX.

	Page
Abbate, Onofrio	410
Abbott, C. S.	362
Abbott, F. H.	525
Adams, A. D.	228
Adams, E. F.	94, 349
Adams, Frank	31, 47, 54, 55, 86, 89, 92, 176, 255, 294, 303, 319, 353, 355, 360, 362, 363, 365, 367, 370, 373, 376, 377, 381, 382, 383, 564, 566.
Adams, G. I.	476, 570
Adams, O.	122, 236
Adams, R. L.	42, 368
Adams, R. M.	288
Adams-Williams, C.	443
Addison, Herbert	241
Adkins, B. W.	424
Adrian, I.	136
Adrianopoulos, A.	425
Aichel, O. G.	188
Aicher, L. C.	11, 32, 126, 144, 149, 530
Alba, O.	469
Alby, Ed.	52
Alexander, J. A.	108, 348, 368
Alexander, W. P.	51, 110, 267, 426, 561
Alger, M.	195, 343
Alibrandi, P.	183
Allardt, G. F.	50, 425
Allen, C. M.	192
Allen, F. M.	44
Allen, Percy	315, 344
Allen, R. A.	404
Allen, R. W.	43, 48, 52, 132, 150, 196, 233, 413, 540
Allison, J. C.	191, 283
Almer, N. L.	515
Alston, Garwood	500
Alten, F.	423
Alter, J. C.	324, 328, 540
Althouse, I. H.	358
Alvarez, S. C.	22
American Academy of Political & Social Science.	6

	Page
American farm bureau federation	26
American society of civil engineers	11, 16, 28
American society of irrigation engineers	27
Amundson, G.	205
Anand, Balmokand	258
Anderson, A. P.	184
Anderson, D. H.	20, 144
Anderson, G. B.	264, 362
Anderson, G. E.	99, 249
Anderson, G. G.	397, 534
Anderson, G. P.	485
Anderson, L.	8
Andrade Corvo, Joao de	6
Andrao, C.	300
Andros, S. O.	396
Anthony, Stephen	32, 133
Arana, V. M.	231, 507
Argentine. Ministerio de obras publicas.	175
Arizona. State water commissioner	336
Arnaud, Alessandro	24
Arndt, F. R.	41, 42, 145, 344, 345
Arneson, E. P.	520
Arnold, C. H.	232, 387
Arnold, G. D.	293,
Arredi, F.	291
Ashmawy, S. A. A.	414
Aspegren, S.	423
Atkinson, A.	32, 132
Atkinson, T. R.	486
Atwood, A. W.	381
Audebeau, C.	108
Auerbach, H. S.	552
Aune, Beyer	29, 91, 149, 150, 510, 511
Austin, M.	512, 530
Austin, O. P.	426, 537
Australia. River Murray commission	351
Ayers, A. H.	387
Azua, Ruiz de	517
Babbitt, H. E.	212, 416, 451, 458, 498
Babcock, W. G.	161
Bach, Hermann	208
Bache, R.	530
Backhaus, A.	207, 209
Bacon, G. M.	58, 551
Bailey, Paul	82, 326, 358, 371, 379
Bailey-Denton, J.	211
Bain, Thos.	503

	Page
Bajwa, K. S.	439
Baker, B.	77
Baker, C. E.	44
Baker, D. M.	312
Baker, F. S.	185
Baker, O. E.	129
Baker, Samuel	63
Balcke, H.	163
Baldwin, G. C.	60, 327
Balfour, J. A.	495, 496
Ball, T. M.	485
Ball, W. S.	293
Ballantyne, A. D.	329
Ballester, R. E.	64, 509
Balzari, R. A.	232, 366
Bancalari, I. L.	466
Bancalari, M.	68, 465, 469
Bancker, A. G.	41
Banerjee, N. N.	447
Banks, E. J.	249
Banks, F. A.	552
Bannerjee, D. N.	436
Barabino, S. E.	509
Barber, J. W.	132
Barbour, E. H.	242
Barclay, J. N.	346, 347
Barder, J. W.	428
Bark, D. H.	83, 112, 116, 134, 136, 189, 385, 428, 459
Barker, F. C.	482
Barker, J. R.	59, 189
Barker, R. M.	248, 513
Barley, J. W.	219
Barnes, Harry	327, 380
Barnes, H. J.	213
Barnett, H. H.	482
Barnhart, G. H. W.	153
Barnhill, O. H.	242
Barois, J.	414
Barois, J. H. E.	412, 413
Barral, J. A.	17, 420, 422, 423
Barrett, John	351, 498
Barron, J. B.	409
Barrows, H. D.	512
Barrows, W. R.	74, 264, 284, 483
Barsov, K. K.	211
Barstow, G. E.	538
Bartel, A. T.	53, 86
Bartels, L. C.	32, 88, 93, 128, 137, 139, 147, 344, 345, 346, 348, 351, 352

	Page
Bartholomew, R. P.	148
Bartlett, A. B.	277
Bartlett, D. W.	561
Bartlett, J. T.	225, 356, 526
Bartlett, Terrell	521
Basevi, Ettore	455
Bashore, H. W.	493
Bassell, Burr	64
Bastet, A.	332
Bataclan, E.	147
Batchelor, L. D.	40, 42, 140, 195
Dates, P. A.	199, 225, 524
Baughn, Eck	233
Baukloh, R. S.	207
Baumann, P.	274
Bauskett, F. N.	545
Bayles, J. J.	30, 518
Beach, C. W.	395
Beale, H. F.	436
Beadle, J. B.	248, 566
Beals, E. A.	321
Dean, R. P.	30, 130, 164, 243
Bear, R. E.	284
Beardsley, J. W.	458
Beatty, A. W.	535
Beatty, F. E.	198
Debb, E. C.	540
Bechara, Edmond	413
Beck, E.	240
Beckett, S. H.	30, 35, 39, 58, 87, 89, 133, 141, 145, 157, 181, 359, 365, 378, 382, 567
Bedford, J. D. H.	161, 292
Bedford, W. W.	368
Behrends, F. G.	230
Belgium, Ministere de l'interieur	353
Belime, E.	38, 332, 333
Bell, J. M.	255, 312
Bellacasa, D. N. P. de la	416, 515, 539
Bellasis, E. S.	114, 281, 287, 290, 445
Bellincioni, G.	77, 78
Delon, E. T.	102, 506
Demis, M. E.	337, 338, 340, 542
Dennett, H. I.	253
Dennett, M.	369, 371
Dontley, M. R.	214, 215, 216, 300, 488
Denton, J.	289, 440, 446

Page

Bercaw, L. O.	354
Berg, E. V.	239
Berg, L.	48, 552
Berger, L. G. den	458
Bergeron, L.	241
Bernard, F.	458
Berra, Domenico	454
Berry, C. M.	215
Berry, Thomas	111, 221
Berthault, P.	330
Bertin, J. L. H.	18, 167
Beruldsen, E. T.	88
Beverley, G.	204
Bey, C. A.	413, 419
Beyschlag, F. G.	214, 358
Biebel, J. P.	215
Bien, M.	174, 305, 537
Bigelow, F. H.	183, 185
Bingham, G. H.	130, 471
Bingham, J. W.	302
Bingham, R. V.	194
Binnie, A. R.	78, 321
Binnie, W. J. E.	117
Bioletti, F. T.	52
Birt, R. J.	503
Bishop, L. E.	78, 276, 342, 497
Bisschop, P. R. R.	500
Bissell, C. A.	248, 541
Bixby, F. L.	71, 192, 227, 315, 325, 478
Black, H. C.	310
Black, P. W.	533
Black, Z. E.	383
Blackmar, F. W.	13, 57, 527
Blair, R. E.	150, 254
Blake, J.	336
Blakesley, A. A.	47
Blanchard, C. J.	18, 68, 147, 220, 247, 248, 251, 254, 341, 374, 401, 430, 486, 525, 539, 541, 542, 569
Blanchard, Murray	109
Blanchard, V. F.	193
Blaney, H. F.	102, 161, 357, 380, 404
Blench, T.	280, 282, 283
Blethen, J.	24
Bligh, W. G.	19, 63, 72, 74, 187, 191, 193, 265, 439

	Page
Bliss, G. H.	58
Bloodgood, D. W.	9, 31, 44, 83, 84 158, 483
Blossom, W. G.	372
Blotnitzki, L.	293, 518
Blythe, S. O.	68
Boals, G. P.	436
Bohmerle, Karl	125
Bohn, E. F.	166
Boischot, P.	84
Bombay, Dept. of land records and agriculture	207
Boncquet, P. A.	36, 41, 378
Bond, Frank	46
Bond, Fred	171
Dooker, W. H.	211
Doone, W. P.	369
Booth, C. J.	15
Dordas, J.	83, 215
Dordiga, O.	457
Dorghesani, G. A. R.	15
Bose, N. K.	59, 60, 114, 257
Dosman, F. H.	92, 93
Doswell, George	24, 129
Dotkin, C. W.	83, 155, 257, 258, 318
Bottomley, W. T.	285
Fourkov, A. F.	265
Douyoucos, G. J.	125, 313, 315
Bowen, L.	143
Bowie, A. J., jr.	20, 128, 267, 407
Dowman, J. D.	7
Dowman, J. S.	120
Boyd, David	395
Doyd, N. E.	483
Dracken, A. F.	325
Brackett, E. E.	44, 236, 237, 477
Bradley, W. H.	570
Brandt, H. A.	359
Brandt, P. M.	128
Braun, C. F.	225
Braungart, Richard	208
Braunton, E.	201, 202, 203
Breazeale, J. F.	320
Breckons, J. A.	180, 310
Brennan, R.	72
Brereton, R. M.	330
Bretigniere, L.	107
Brewbaker, H. E.	50, 92
Briggs, L. J.	35, 181, 195, 319
Bristol, W. M.	42, 361
Brodie, H.	566
Bronimann, E.	463
Brook, H. E.	364

Page

Brooks, Charles	14, 85
Brooks, H. H.	220, 304
Brooks, R. C.	212
Brossard, E. B.	136, 147, 551
Brough, C. H.	550
Brouse, E. M.	127
Brown, C. F.	82, 124, 250, 550
Brown, Sir Hanbury	264, 413, 414, 415
Brown, H. A.	97, 121, 155, 532
Brown, J. D.	30, 40, 42, 103, 137, 162, 197, 209, 353, 365
Brown, J. R.	209
Browne, J. R.	287, 374
Brown, L. N.	87, 365
Brown, R. H.	12, 17, 409, 473
Brown, S. M.	152
Brown, V. J.	477
Brown, W. S.	84
Bruce, E. S.	296
Bruins, J. F.	131
Brunhes, Jean	332, 495, 514
Bryan, E. N.	121, 295, 362
Bryan, Kirk	135, 198
Bryan, W. E.	136
Bryan, W. H.	289, 375
Bryant, O. W.	90, 572
Buchner, K.	207
Buckingham, Edgar	326
Buckley, R. D.	16, 267, 274, 414, 440, 441
Budd, M. R.	399
Buffum, B. C.	6, 114, 118, 193, 310, 573
Bull, G. M.	565
Bullock, W. H.	228
Bunger, M. E.	302, 392
Burdick, C. D.	211
Burdick, C. E.	209
Burdick, R. T.	11, 101, 131
Burge, C. O.	63, 415, 438
Burgers, H. T.	504
Burgess, P. S.	143, 336
Burkholder, J. L.	72, 167, 256, 275, 481, 483, 484, 519
Burkov, A. F.	291
Burleson, A. S.	527
Burley, R. J.	475
Burnham, G. E.	495

	Page
Burpee, L. J.	386
Burr, W. W.	325, 326
Burton, J. R.	9
Busch, D.	415
Bush, D. O.	67
Busse, Walter	522
Butler, M. A.	494
Butler, W. F.	267, 486
Butt, N. I.	154, 162, 256
Butte, P. C.	238
Byers, C. A.	403
Dyham, H. F.	281
Dyrd, R.	534
Cabrera y Polo, J.	75, 559
Calder, G. G.	147
Calfas, P.	462
California. Attorney-general	358
California debris commission	248
California. Department of engineering	354
California state association of irrigation districts	54
California. Department of public works	354, 374
California state board of trade	250, 374
California. State water commission	354
California. Division of water rights	354
Callan, A.	155, 279, 520
Calvo, A.	509
Cameron-Brown, C. A.	239
Cameron, F. K.	255, 312, 319
Camp, W. D.	377
Campbell, A. L.	128, 366
Campbell, H. C.	280
Campbell, J. L.	223, 301, 484, 520
Camp, W. E.	46, 229, 359
Canada. Dept. of the interior	385, 386
Canada irrigation association	27
Candiani, E.	509
Caraffa, P. A.	509
Carl, A.	209, 214
Carlson, K. A.	500
Carpenter, J. A.	404
Carpenter, L. G.	116, 182, 184, 185, 189, 191, 295, 313
Carpenter, S. W.	173
Carrell, R.	356
Carrier, E. H.	108
Carter, C. F.	129, 383, 524
Carter, D. G.	141
Carter, E. G.	156
Carter, O. C. S.	108, 337

	Page
Case, R. O.	527
Casini, P.	453
Cassidy, N. G.	161
Castella, F. de	52, 352, 353
Cates, R. H.	73, 102, 228, 232, 357
Catlin, C. N.	152, 313
Catlin, F. D.	137, 532
Cautley, P. T.	278, 286, 289
Ceylon. Public works department	435
Ceylon. Department of irrigation	432, 444
Chadwick, H. M.	101
Chaffey, F.	144
Chaffey, F. A.	32, 349
Chamier, George	176
Champlin, M.	142
Chandler, A. E.	111, 168, 172, 243, 303, 323, 382
Chandler, E. M.	124, 288, 557
Chapman, Arthur	253, 398
Chapman, E. N.	160
Chase, Marvin	557
Chaterjee, G. C.	433
Chatterton, Alfred	107, 232, 234, 437
Chaves, E.	269
Chazal, A. R. de	420
Checa, F.	516
Chelu, A. J.	409
Chesebrough, J. M.	268, 364
Chevalier, G.	193, 214, 330
Chi, Choating	390
Chicago and northwestern railway company	510
Chilcott, E. C.	145, 322, 325, 425, 511
China. Huai river commission. Bureau of engineering	391
Chiru, Constantin	497
Chittenden, H. M.	76
Chomley, F. G.	32, 44, 144, 349, 352
Christie, A. W.	154
Christie, W. P.	425
Christiansen, J. E.	190, 191, 203, 204, 368
Chubarov, N.	523
Church, J. E., jr.	117, 313, 322
Churches, H. C.	136
Cieslar, Adolf	125
Clapp, F. G.	327
Clark, J. D.	152, 481
Clark, V. I.	511
Clark, W. O.	91, 223, 480

	Page
Claudy, C. H.	546
Claus, H. N.	7
Claxton, P.	274, 443
Claypool, L. L.	41, 90
Clayton, B. S.	46, 48, 101, 226, 342
Cleghorn, J. C.	20
Cleghorne, W. S. H.	88
Clements, M. F.	295
Cleveland, E. A.	385
Cleven, N. A. N.	508
Cliff, A. P.	437
Cline, J. G.	205
Clothier, R. W.	324
Clough, C. C.	17
Clyde, G. D.	155, 157, 158, 189, 284, 316, 319, 324, 327, 538
Clyde, H. S.	104, 154
Clyne, A.	249, 417
Coburn, F. D.	232, 459
Cockrane, H. G.	282, 337
Code, W. E.	102, 229, 231, 240, 272, 273, 314, 337
Coetzee, P. J. S.	92
Cohen, C.	207
Coignet, Jean	66, 76, 332
Coke, J. E.	50, 366
Colaco, J. A.	227, 434
Colby, A. S.	49, 545
Cole, A. N.	7, 18
Cole, A. P.	7
Cole, Burt	23, 80
Cole, D. W.	66, 70
Cole, J. S.	53
Coleman, F. C.	352
Coles, W. H.	202, 204
Coletta, Nicola	335
Collidae, D.	543
Collingwood, C. B.	225
Collins, A. W.	294, 295
Collins, C. P.	212
Collison, R. C.	157, 319
Colorado river commission	166, 399, 400, 404
Colpitto, W. W.	520
Colver, C. W.	53, 132
Coman, K.	310, 548
Condee, R. A.	137
Cone, V. M.	84, 113, 137, 187, 188, 191, 192, 275, 299, 364, 395

	Page
Conkling, H.	302, 312, 524
Conley, J. D.	313
Connell, J. H.	60, 521
Conner, R. M.	67, 466
Coonick, H. D. H.	330
Connor, L. G.	141
Constantin, L. J. M.	451
Conway, C. D.	235
Cook, L. J.	33, 343
Cooke, W. W.	9, 394
Cooper, E. W.	553
Cope, H. F.	537
Corbett, F. V.	271, 475
Corbett, L. J.	556
Cordner, R. A.	239
Corey, H.	254, 549
Coria, A.	465
Cornali, G.	455
Cortes, N.	495
Corthell, E. L.	21, 69, 237
Corwin, T. J.	293
Cory, H. T.	399, 400, 402
Coscolluela, J. A.	560
Costa, A. F.	506
Costa y Martinez, D. J.	514
Costenable, H.	237, 495
Cotton, F. C.	433
Cotton, W. O.	55, 57, 130
Coulter, W. S.	250, 572
Coupey de la Forest, Max Le	421
Covey, W.	215
Cowgill, E. D.	459
Cox, H. R.	15
Cox, J. D.	154
Cox, W. G.	17
Coy, D. G.	300
Crafts, H. A.	160, 193, 393, 396, 398, 547
Cragin, C. C.	120, 121, 193, 336, 432
Craig, G. W.	173, 303
Craig, J. I.	410
Crandall, C. S.	9, 394
Crandall, L.	270
Crane, A. D.	193, 555
Crawford, A. M.	306
Crawford, E. M.	263, 506
Crawford, H. L.	271
Crawford, I. C.	553
Crawford, R. F.	435
Crawley, J. T.	51, 52, 560, 561

	Page
Creager, W. P.	64
Creel, C. W.	405
Crellin, E. A.	122, 368, 372
Criddle, E. B.	366
Crider, F. J.	320
Critchett, O. A.	165, 301
Cromarty-Tulloch, J.	36, 331
Crombia, H.	227
Cronholm, F. N.	142
Crotto, V.	453, 454
Crowther, F.	39
Crump, E. S.	297
Culbertson, J. D.	16, 40
Cumming, J. W. N.	43, 343, 445
Cunniff, L. J.	26
Cunningham, F. J.	173, 556
Cunningham, M. F.	526
Cupper, P. A.	490, 492, 533
Currie, J.	36, 409
Currie, J. H.	149, 197, 361
Currier, E. L.	135, 474
Curry, A. S.	9, 31, 39, 84, 91, 100, 483, 485
Cushing, G. H.	383
Cutler, A. W.	414
Cutting, M. C.	142
Cuttle, F.	163, 382
Czarnomska, M. E. J.	408
Da Fonseca Rodrigues, J. S.	507
Dahl, A. L.	426, 427
Dana, M. N.	242
Dare, H. H.	345, 351
Darley, B. D.	273
Darlington, E. B.	245, 269, 275, 429
Darlington, T. D.	292
Darrow, F. L.	537
Darton, N. H.	316, 320, 511
Darvall, A. E.	348
Darwent, J. H.	43
Darwin, A. G.	120
Davenport, Eugene	12
Davey, M.	201
David, T. W. E.	346
Davidson, George	378
Davidson, J. B.	11
Davies, J.	391
Davies, P.	412
Davis, A. P.	14, 18, 22, 250, 294, 338, 340, 402, 497, 523, 531, 544, 561, 565

	Page
Davis, C. F.	172, 173
Davis, C. V.	249, 374
Dawson, A. S.	384, 386
Day, Allen	394
Day, D.	202
Daybell, F.	35, 372
Deady, C. L.	172
Deakin, Alfred	436
Dean, H. K.	142, 491
Dean, L. G.	43
Dean, W. H.	243
De Angelis, G.	191
De Baun, R.	200, 407
De Baun, R. W.	16, 19, 194, 480
DeBerard, W. W.	431, 539, 565
Debler, E. B.	110, 162, 224, 275, 394, 548, 550
DeBoer, S. R.	292, 552
DeBra, L. L.	383
Decombre, A.	510
Deeds, J. F.	475
Delinikaitis, S. A.	497
DeLisser, H. G.	559
Dolpiano, C.	269
DelYerro, J.	516
Deming, W. C.	246, 571
Dempster, G. H.	419
Dennis, J. A.	35, 36, 138, 158, 194, 369
Dennis, J. S.	171, 305, 383
Dennis, L. G.	305
Denton, J. B.	211
Deo, P.	273
Derby, R. L.	158
Desai, H. M.	147
Desbarres, H.	514
Deseniss, J. H.	17
De Silva, W. A.	143
Deslarzes, J.	95, 435
Dibble, Barry	234, 235
Dickerson, H. L.	104
Dickerson, I. W.	49
Dickeson, O. L.	528
Dickson, R.	143
Diehl, H. C.	205
Dionert, Frederic	10, 317, 421
Dixey, Frank	71, 81
Dixon, A. C.	14
Dixon, H. M.	145
Doland, J. J.	274, 526

	Page
Dolliver, G. B.	254
Donald, James	17
Donnelly, C. S.	537
Dorman, Ralph	341
Dorsey, E. B.	13
Doty, E. F.	225
Douie, J. M.	445
Dowd, M. J.	186, 269, 279, 355
Dowell, C. L.	122, 290, 521
Downing, F. W. H.	189
Downing, G. J.	41, 134
Downing, O. J.	83
Doyle, H. W.	194
Doyle, K. D.	6, 266
Drake, E. F.	246, 250, 386, 387, 388
Draper, W. R.	245, 533
D'Rohan, W.	105, 284, 573
Drouineau, G.	84
Dubuis, John	492
Duell, W. S.	486
Duffus, R. L.	512, 527
Dufour, Gabriel	176
Dugger, J. B.	249
Dumont, R.	46
Duncan, C. A.	11
Dunkelberg, W. F.	7
Dunn, F. M.	227
Dunn, H. H.	286
Dunn, R. L.	302
Dunnewald, T. J.	133
Dunshee, C. F.	39, 46, 82, 364
Dupuis, C. E.	417, 418
Dupuy, A.	507
Durand, W. F.	403, 513
Durbrow, W.	100, 383
Duryea, Edwin, jr.	315
Dutton, C. E.	43, 206
Dye, D. S.	391
Dyke, F. S.	387
Dykstra, C. A.	400
Eakin, H. M.	161
Earle, W. C.	50, 105, 559
Eastman, P.	242
Eastwood, J. S.	61
Eaton, B. J.	154
Eaton, E. C.	54, 288, 357, 368, 370, 564
Eaton, F. M.	34, 152, 160, 364
Ebner, G.	54, 277, 286

	Page
Eckart, C. F.	51, 52, 85, 426
Eckerbom, A. K.	518
Eddy, L. H.	298
Edison, H.	51
Edlefsen, N. E.	19
Edmonds, R. H.	394
Edmonston, A. D.	373
Edmundson, W. C.	44, 46, 83, 92
Edson, H.	52, 139
Edwards, C. E.	291
Edwards, P. L.	37, 131, 512
Egginton, G. E.	156
Egypt. Irrigation department	408
Egypt. Public works department	320, 408, 416, 417
Ehlers, V. M.	208
Ehrenberg, Paul	208, 214
Eisenhauer, E. E.	139, 385
Eklund, H. E. A.	347
Elder, H. W.	555
Eldred, C. P.	242
Elliot, C. G.	123, 124
Ellison, W. D.	294
Elsby, L. F.	486
Elsden, F. V.	277
Embrey, A. T.	312
Englehart, O. H.	199
Ensign, O. H.	123
Ernst, F. H.	30, 359
Ervin, Guy	17, 172, 536
Erwin, A. T.	30, 206, 452
Escher, G.	453
Escribens, M. R.	22
Eshbaugh, E. P.	241, 568
Estanol, J. V.	463, 468
Estee, M. M.	16
Etcheverry, B. A.	16, 49, 77, 114, 240, 295, 388, 517
Evans, M. W.	32, 487
Evans, S. C.	355
Evanoff, G. S.	73
Ewing, P. A.	54, 57, 81, 95, 103, 104, 218, 219, 238, 321, 380, 393, 428, 475, 476, 482, 519, 541, 554, 570

	Page
Fadini, C.	234
Failyer, G. H.	324
Fairfile, W. H.	111
Falk, Friedrich	208
Fanning, J. T.	116
Farnham, H. P.	173, 305
Farnham, O. E.	27
Farnsworth, F.	43
Farrand, W.	234
Farrell, F. D.	11, 29, 130, 137, 148, 245, 510
Farrell, J.	40, 343
Fatchikhina, O. E.	39
Faulkner, O. T.	149
Faure, L.	422, 423
Favor, E. H.	239
Fawcett, W.	429
Fazel, F. M.	203
Federazione italiana dei consorzi agrari	74
Federazioni nazionale delle irrigazioni	27
Feicht, E. R.	72
Fellows, A. L.	328, 398, 424, 477
Ferguson, B.	76, 568
Fernando, W. N.	88
Ferrar, H. T.	486
Ferrari, E.	514
Field, J. E.	76, 102, 395
Fields, John	151, 161
Fife, A.	82, 111
Finkle, F. C.	153, 161, 356, 377
Finley, G. C.	277
Finnell, H. H.	158, 161, 317, 318, 319
Fisher, B.	495
Fisher, D. F.	14, 85, 129
Fitzgerald, H. J.	22
Flack, E. V.	496
Floy, A. H.	86, 486
Fleisher, H. A. M.	208, 213
Fleming, B. P.	87, 109, 184, 190, 229, 230, 236, 240, 571
Fleming, W. M.	87, 157
Fletcher, Robert	487
Flower, B. O.	6
Flower, E.	17
Flynn, P. J.	114, 281
Fogg, P. M.	69, 182, 256, 272, 428
Foley, Frank	568

	Page
Follansbee, Robert	405, 471
Folwell, A. P.	329
Foote, A. D.	374
Foote, C. P.	199
Forbes-Lindsay, C. H.	249, 252
Forbes, R. H.	31, 136, 137, 141, 152, 156, 160, 256, 337, 338
Forde, C. D.	501
Forest, Newton	521, 530, 545
Forrest, James	444
Forshing, C. L.	185
Fortescue, G.	506
Fortier, Samuel	19, 20, 24, 25, 31, 42, 43, 55, 64, 71, 76, 77, 81, 89, 110, 111, 114, 115, 124, 139, 141, 144, 145, 148, 149, 161, 181, 182, 183, 185, 188, 195, 196, 246, 270, 271, 272, 300, 301, 325, 327, 364, 367, 370, 373, 404, 406, 459, 473, 488, 491, 494, 512, 525, 530, 534, 535, 536, 540, 549, 564, 565
Foscue, E. J.	520
Foster, Luther	11
Fotheringham, N. S.	345
Fournier, M. F.	422
Fowler, L. W.	143
Fox, A.	51
Fox, C. K.	23, 54, 261, 363
Franzen, J. L.	294
Fraps, G. S.	46, 151, 154
Fraps, J. A.	280, 297, 337
Frazier, J. O.	461
Free, E. E.	152
Freeman, J. R.	116
Freeman, L. R.	524, 562
French, G. P.	295
French Indo-China. Inspection generale des travaux publics	451
Freycinet, Charles de	210
Frizell, E. E.	459
Froehde, F. C.	208, 210, 213
Frolow, V.	518
Frozini, P.	75
Fry, A. S.	522

	Page
Fry, W. R.	343
Fuente, J. de la	466
Fulkerson, Vincent	216
Fuller, M. L.	43, 327
Fuller, P. E.	145, 237, 241, 563
Fulmer, Elton	49
Fulton, J. A.	404
Furby, E.	143
Furkert, F. W.	485
Furque, Hilarion	7
Furr, J. R.	34, 36
Fyfe, F.	283
Gallagher, F. E.	319
Gallagher, H. J.	204
Galland, J.	14
Galloway, J. D.	121
Ganassini, G.	123
Ganossis, B.	145
Ganossis, B. G.	257
Ganzales, A. de J.	559
Garcia, F.	45, 91, 484
Gardner, Willard	154, 317
Garrett, G.	253, 547, 568
Garstin, William	322, 409, 418
Garstin, W. E.	77, 78, 314, 413
Garstin, W. W.	419
Garver, H. L.	201, 230, 556, 565
Gas ossis, B.	425
Gast, R. H.	378, 379
Gates, C. L.	246, 339
Gault, H. J.	268, 322, 375
Gauthier, J.	292, 452
Gavito, I. S.	464
Gaylord, J. M.	76, 123, 220, 532
Geiger, C. W.	202, 229, 327, 380
Geijsbeek, J. B.	94
Gemmell, R. C.	23
Gerhardt, Paul	127
Gibbs, A. S.	433
Gibling, M. T.	433
Gifford, G. H.	29
Giglioli, Italo	457
Gilbert, T.	9
Gill, C. A.	283
Gillette, E.	145, 249, 542
Gillette, H. P.	104
Gilmore, W. J.	240
Gilson, W. I.	268, 518
Giovanetti, Jacques	177
Gipson, A. E.	10, 14

	Page
Glebov, P. D.	286
Gneist, K. H.	129
Godard, Louis	461, 524
Goddard, J. E.	521
Goethals, W. and co., inc.	553
Gokhale, V. K.	51, 433, 449
Golas, M.	109
Goldschmidt, M. J.	494
Goldsmith, P. V.	51
Golf, R. A.	436
Gonzalez, G.	320
Gonzalez, P. L.	167, 302
Gonzalez, R. A.	560
Gonzalez-Blanco, Pedro	516
Goodman, H. M.	385
Goodrich, E. P.	249, 374
Goodrich, R. D.	197
Goodwin, E. H.	212, 522
Goodwin, G. E.	55, 433, 552
Gordon, C. E.	495
Gordon, D. J.	344
Gordon, J. H.	83, 570
Gordon, W. D.	330, 499, 500
Gorrie, R. M.	436
Goss, Arthur	163
Gould, A. R.	126
Goumy, A.	6
Gracie, D. S.	125
Grad, Ch.	420
Graham, R. J. D.	140
Graham, W.	102
Granbeck, A. C.	370
Grant, C. W.	436
Grant, L. M.	266, 299
Graves, C. R.	526
Graves, J. E.	256
Gray, E. D. M.	10, 244
Gray, W. A.	486
Greathed, W. H.	444
Greaves, H. R.	199
Greaves, J. E.	142, 153, 155, 156, 158, 253, 326, 549
Greely, A. W.	567
Green, E. C.	215
Green, S. S.	158, 169, 333, 369
Green, W. J.	215
Greene, H.	82
Greene, J. S.	301, 303, 392
Gregory, J. W.	499

	Page
Gregory, W. B.	46, 47, 102, 226, 228, 235, 241, 461
Griffin, A.	164, 388, 537
Griffin, R. C.	156
Griffith, P. M.	466
Gronland, C. J.	280
Gross, E. R.	204, 205
Grove, A.	126, 127
Grubb, E. H.	45
Grunsky, C. E.	100, 182, 252, 264, 273, 278, 356, 361, 362, 365, 374, 381, 388, 402, 534, 562
Guarini, Emilio	239
Gullett, H. S.	455, 563
Gulley, F. A.	225
Gulliver, T. R. V.	486
Gunn, J. P.	60, 71, 118
Gurtu, S. K.	9, 55, 329, 432, 433, 446, 448
Gussoni, L.	453, 456
Gustafson, J. A.	200
Guthrie, F. B.	256, 343
Gutmann, I.	60
Haber, E. S.	30, 203, 452
Hackett, C. I.	512
Hall, B. M.	560
Hall, C. G.	167, 303
Hall, Cyril	311
Hall, G. D.	280
Hall, L. S.	116, 266
Hall, W. H.	14, 19, 22, 54, 355, 371, 372
Hall, W. L.	118
Hallahan, F. P.	195
Hallsted, A. L.	53
Halseth, O. S.	286
Halsey, J. J.	355
Halsted, B. D.	15, 126
Halton, C. J.	195
Haltz, H. F.	134
Hamele, Ottamar	168, 529
Hammatt, W. C.	109
Hampton, E. L.	66, 532, 545
Hanhart, D. R.	363
Hanna, F. W.	8, 57, 63, 117, 186, 187, 234, 238, 288, 293, 297, 431

	Page
Hansbrough, H. C.	250
Hansen, Dan	32, 83, 128, 134, 136, 137, 150, 472, 473
Hanson, H. C.	128, 394
Hardenberg, G. C.	81
Hardenberg, W. A.	63
Hardesty, W. P.	253, 396, 549, 573
Harding, S. T.	23, 145, 180, 187, 188, 277, 311, 317, 322, 361, 473
Hardman, G.	139, 184, 227, 315, 478, 479
Hardy, H. C.	419
Harger, C. M.	540
Hargrove, R. L.	325
Haringhuizen, J.	77, 406
Harlan, H. B.	40
Harlan, H. V.	32, 133
Harley, C. P.	201
Harner, S. O.	394
Harper, S. O.	136
Harrington, F. M.	44, 82
Harris, A. L.	8, 133, 336
Harris, D. G.	438
Harris, F. S.	31, 33, 45, 49, 50, 53, 85, 87, 110, 137, 139, 140, 154, 162, 182, 256, 324, 325, 550
Harris, G. D.	48
Harrison, C. S. C.	441
Hart, R. A.	124, 132, 250
Hart, W. H. H.	168
Harza, L. F.	120, 122
Haskell, C. G.	47, 48, 520
Haslam, J. F. C.	105, 106
Hastings, S. H.	37, 38, 133, 137, 338, 510
Hastings, S. R.	473, 476
Haswell, C. H.	258, 292
Haswell, J. R.	206
Hauter, L. H.	94, 100, 526
Haviland, P. H.	281, 496
Haw, C. E.	206
Haw, J. W.	164, 243, 250, 251, 252, 542, 563, 567

	Page
Hawes, C. G.	289
Hawkins, J. C.	501
Hawkins, Percy	237
Hawkins, R. S.	37, 38
Hawthorn, L. R.	93
Hayden, B. E.	218, 553
Hayden, T. A.	94, 336, 341
Haynes, H. N.	56, 393
Hays, J. C.	231
Haywood, C. M.	440
Haywood, J. K.	151
Headdon, W. P.	153, 157, 164, 329, 392, 398
Headley, F. B.	30, 56, 107, 150, 159, 216, 248, 478, 479, 480
Hedrick, E. A.	29
Heimerle, August	423
Heinly, B. A.	295, 296, 298
Helmick, C. W.	262
Hemphill, R. G.	37, 87, 394, 395, 520
Henderson, M. D.	522
Hendrick, H. B.	329
Hendrickson, A. H.	41, 42, 85, 359, 365
Henrici, M.	89
Henry, C. C.	537
Henry, D. C.	65, 99, 104, 114
Henry, S. T.	508
Henry, T. C.	308
Henry, Yves	38, 332
Henry-Girard, R.	198
Henshaw, F. F.	489
Herbert, F. W.	39
Herisson, Albert	457
Hermann, A.	71
Heron, W. H.	403
Herrera y Lasso, J.	119, 166, 463
Herrmann, F. C.	79
Herron, F. W.	144, 164, 372
Herziger, L.	126
Hess, August	9
Hess, J. M.	13, 245, 398, 401
Hess, R. H.	525
Hess, S.	287
Hewes, L. I.	113
Hewett, J. P.	462
Hezmalhalch, C. C.	309, 398
Hibbard, P. L.	152, 160
Hicks, L. E.	476
Hildreth, T. N.	341

	Page
Hilgard, E. W.	14, 23, 153, 154, 157, 257, 314, 366, 367
Hilgendorf, W. F.	485
Hill, J. J.	540
Hill, L. C.	404
Hiltman, B.	238, 239
Hilton, J. E.	156
Hinckley, H. V.	32, 237, 459
Hinderlider, M. C.	338
Hines, P. R.	492
Hindman, A. C.	173, 305, 430
Hinds, J.	296, 470
Hinton, R. J.	170, 173, 255, 322, 534, 535
Hirst, C. T.	151, 153, 156, 158, 549
Hitchcock, E. A.	19
Hitchcock, G. W.	262, 272, 554
Hitier, H.	92, 421
Hoagland, D. R.	154
Hobart, C.	40, 53, 86, 92
Hobson, E. G.	100
Hodge, F. W.	108, 339
Hodges, R. E.	34, 47, 95, 123, 201, 257, 303, 307, 354, 356, 357, 361, 362, 369, 371, 372, 373, 376, 377, 378, 380, 383, 396, 512
Hodgson, R. W.	23
Hoeffelman, R. G.	342, 461
Hoerning, C.	96, 507
Hoffman, M.	209
Hogue, G. H.	238, 431
Hoke, C. E.	24
Holden, J. A.	83, 131, 134, 143, 150, 254, 476
Holmes, J. D.	483
Holt, L. M.	251, 380
Holter, G. L.	151, 161
Holton, E. P.	444
Holtz, H. F.	257, 258
Holyoke, G. E.	300
Hood, G. W.	25, 127
Hood, O. P.	235
Hoon, R. C.	256, 257, 259
Hooper, L. J.	192
Hoover, H.	58, 538
Hope, A.	153
Hope, Claude	37, 82

	Page
Hoppert, E. H.	206
Hopson, E. G.	65, 79, 97, 181, 184, 314, 354, 357, 545
Horak, Jan	243
Horiguti, Y.	183
Hornaday, W. D.	518, 521, 530
Hornbein, J.	185, 431
Horne, W. S.	486
Horsfield, R. H.	352
Horton, R. E.	193
Horton, Theodore	279
Hosea, R. G.	484
Hough, E.	148, 522
Houghton, H. W.	158, 161, 329
Houk, E. I.	74, 266, 290, 427, 570, 571
House, E. B.	166, 215
Howard, Albert	53, 129, 160, 198, 439, 448
Howard, F. K.	49, 369, 383
Howard, G. L. C.	53, 129, 160, 439, 448
Howard, R.	491
Howard, R. R.	534
Howe, E. F.	512
Howell, C. H.	62, 463
Howell, E.	462
Howell, I. M.	171
Howell, L. B.	467
Howes, E. A.	138
Hoyt, W. G.	431, 487, 569
Isueh, C. P.	391
Hubbard, J. W.	38, 39
Hubbert, S. M.	511
Huber, E. F.	225
Huber, H. F.	202, 204, 480
Huberty, M. R.	30, 40, 42, 87, 197, 365, 366
Huffington, M. J.	9, 394
Hughes, E. H.	499
Hughes, W.	178
Hulbert, H. W.	494
Hungerford, H. F.	51, 426
Hunt, T. F.	11
Hunter, B.	56, 132, 428
Huntley, F. A.	9, 394
Hurd, C. J.	493
Hurler, W. P.	511
Hurley, F. A.	503
Hurst, C. J.	562

	Page
Hurst, H. E.	74, 334, 419
Huston, Harvey	178
Hutchins, A. E.	126
Hutchins, W. A.	49, 54, 55, 56, 59, 94, 96, 97, 98, 140, 153, 159, 176, 179, 294, 307, 320, 366, 476, 533, 551, 564, 568
Hutchinson, C. M.	7
Hutchinson, R. E.	90
Hutchison, R. E.	29, 230, 489, 492
Hutson, W. F.	521
Hutton, C. H.	446
Hutton, S.	186
Hyatt, Edward	165, 217, 356
Idaho irrigation and drainage code commission	173
Idaho irrigation congress	27
Idaho state engineer	427
Iden, J. B.	10
India. Ajmer-Merwara. Public works department	447
India. Bengal. Irrigation branch	432, 451
India. Bombay presidency. Public works department	432, 433, 434, 435, 437, 440, 441, 442, 447, 450, 451
India. Burma. Public works department	442, 448
India. Central board of irrigation	28, 435
India. Central provinces and Berar. Irrigation branch	432, 448
India. Madras presidency. Irrigation branch	432, 451
India. North west frontier province. Irrigation branch	218, 432, 433, 440, 446
India. Sind. Public works department	432
Ingersoll, G. T.	233
Inglis, C. C.	51, 210, 264, 274, 277, 285, 286, 291, 297, 433, 442, 443
International irrigation congress	27
Interstate royal commission on the river Murray	345
Irish, C. W.	356
Irrigation congress of North Dakota	27, 487
Irving, William	111
Isaac, E. E.	215
Israelsen, O. W.	16, 88, 89, 109, 116, 154, 174, 189, 191, 305, 312, 326, 328, 532, 543, 546, 550
Jack, H. W.	498
Jacks, R. H. M.	278
Jacob, L.	438

	Page
Jacobi, T. R.	275
Jacobson, A.	19, 423, 451
Jacomb, F. B.	415
John, J. R.	299, 357
James, G. W.	212, 243, 566
James, R. J.	86
James, R. L.	485
Jardine, J. T.	243, 489
Jarrell, J. F.	93
Jayne, S. O.	146, 274, 301, 556
Jean, F. C.	22, 49, 533
Jeffery, J. A.	324
Jenkins, W. G.	339
Jonks, J. W.	409
Jenning, D. S.	184
Jennings, A. C.	193, 281, 496
Jennings, P. J.	334
Jensen, C. A.	153
Jensen, I. J.	30
Jensen, Joseph	68
Jessup, L. T.	123, 124
Jewell, W. R.	163
Jilinsky, J.	497
Joglekar, D. V.	264, 274, 277, 285, 286, 442
Johnson, A. A.	250
Johnson, E. R.	135, 555
Johnson, H. H.	56, 472
Johnson, O.	343
Johnson, S. C.	132
Johnson, S. E.	57, 425, 471
Johnson, W. D.	563
Johnston, C. N.	236, 376
Johnston, C. T.	20, 24, 111, 118, 130, 294, 308, 310, 410, 571
Johnston, W. W.	31, 45, 84, 87, 128, 139, 140, 569
Johnstone, C. M.	106, 431
Johnstone, H. V. C.	411
Johnstone, H. W.	41, 366
Johnstone, W. A.	163, 304
Jollie, J. T.	496
Joly, Ch.	35
Jones, B. E.	337, 475, 536
Jones, D. L.	209, 521
Jones, E. H.	34
Jones, I. R.	83, 123
Jones, J. S.	53, 132, 133, 145

	Page
Jones, J. W.	133, 324
Jones, P. S.	113
Joshi, N. S.	276
Joyce, A. S.	419
Juanes, C.	513
Jungerman, A. A.	52, 358
Justin, J. D.	64
Juta, Henry	180, 311
Kaerger, Karl	17, 333
Kahai, H. S.	289
Kaiser Wilhelms institut fur landwirtschaft	25
Kalitz, M. A.	309
Kansas irrigation association	459
Kanthack, F. E.	21, 333, 500, 501, 503, 504, 509
Kapriyelyantz, G. E.	38
Karper, R. E.	183
Kay, A. O.	420
Keane, Sir John	446
Kearney, T. H.	149
Kearney, W. M.	309
Kearny, C. H.	519
Keeler, K. F.	58
Keelhoff, J.	24
Keen, B. A.	424
Keeney, G. H.	46
Kelley, W. P.	151, 152, 154, 160, 256
Kellogg, H. C.	371
Kelly, William	120, 401, 464, 512, 562
Kelsey, J. A.	15, 126
Kempkey, A. jr.	353
Kenchinton, F. E.	335
Kendall, C. H.	534
Kenessey, B.	420
Kennedy, H. J.	232
Kennedy, R. C.	63
Kennedy, R. G.	158, 191, 264, 565
Kempkey, A. jr.	70, 279
Kent, F. L.	490
Kent, R.	195
Kenyon, H. F.	377, 513, 563
Kern, Erich	310
Kernot, C. H.	348
Kerr, H. W.	161, 348
Kerr, J. M.	175
Kerr, S. L.	298
Ketchum, C. C.	275
Ketchum, W. D.	122, 247
Keys, C. M.	100

	Page
Kezer, Alvin	82, 91, 137, 395
Khangar, S. D.	288
Khanna, R. K.	279
Mhosla, A. N.	59, 116, 444
Kidder, A. W.	298
Kidder, H. H.	521
Kidder, W.	33, 141, 146
Kieffer, D. L.	140, 193, 363, 369, 377, 399
Kieffer, S. E.	297, 327, 380
Kikkawa, S.	154
Killick, V. W.	75, 314
Killingsworth, W. S.	43
Kimball, H. H.	182
Kimball, M. H.	17, 40, 319, 373, 381
Kimball, M. W.	367
King, A.	101, 488, 490
King, C. J.	38
King, F. H.	13, 236, 407
King, N.	50, 154
King, W. R.	97, 169, 245, 526
Kingdon, J. T.	112
Kinkaid, D. B.	172
Kinney, C. S.	107, 179, 309
Kinney, F.	549
Kinsey, D. J.	404
Kirk, J. A.	23
Kirkpatrick, H. B.	495
Kittle, Robert	107, 317
Klein, J.	132, 157, 203, 379
Kleinschmidt, H. S.	15, 81
Kliwer, Henry	43
Klingo, G.	505
Klopsch, Reinhard	207
Klugel, H. A.	84
Klugeland, H. A.	362
Knapp, B. E.	360
Knapp, F. H.	560
Knapp, G. S.	90, 145, 241, 425, 460, 461
Knauer, H.	18
Knoble, R. D.	184, 190
Knight, C. S.	31, 45, 53, 135, 139, 140, 479
Knight, E. W.	151, 478
Knight, J. B.	89
Knight, M. M.	335
Knorr, Fritz	84, 134, 142, 150, 476
Koethen, E. L.	34, 36, 41, 328

	Page
Konig, F. J.	127, 151, 162
Konig, J.	211
Koonce, Dwight	53, 81
Koralex, A. A.	279
Korn, Otto	211
Korneff, B.	215
Kornev, V. G.	92
Korolkov, K. N.	214
Korsmo, A. M.	431
Kostiakov, A. N.	10
Kostrov, I. N.	277, 284
Koughridge, R. H.	153
Kraus, E. J.	43, 221
Kreutz, Adolf	211
Kreutzer, G. C.	57, 528, 556
Kruger, E.	199
Kruzilin, A. S.	84
Kryan, K.	529
Kulp, M. R.	24, 188, 233, 277, 294
Kyle, J. M.	107
Lacasa, J. G.	516
Lacey, G.	72, 285, 292
Lacey, J. M.	113, 194, 277, 318
Lacour, H.	211
Ladd, E. F.	164, 329
La Follette, J. R.	201
Laine, M. E.	422
Lal, M. M.	130, 151
Lamb, J. F.	280
Lamminga, A. G.	188
Lamothe, Leonce de	422
Lampen, Dorothy	56, 168, 243, 527
Landa, G.	467
Lander, P. E.	208
Landes, Henry	557
Landon, W. E.	201
Lane, E. W.	291, 292, 378, 390
Lane, F. K.	540, 545, 547
Langbein, F.	206, 213
Lankford, W. C.	143
Lantz, H. L.	135, 198
Lapray, G.	453
Lapworth, Herbert	117
Larson, C. A.	41, 90
Larson, E. O.	13
LaRue, E. C.	400, 405, 512
Larue, P.	144
Latham, Baldwin	210
Lattimore, Owen	106

	Page
Laut, A. C.	303, 532
Laval, C. G. de	428
Lavergne, H.	38, 332
Lawson, H. J.	123, 341
Lawson, L. M.	294, 481, 519
Lea, F. C.	114
Lea, S. H.	9, 511
Leake, H. M.	451
Leane, W. B.	500
Leather, J. W.	181, 182
Lebens, Th.	17
LeConte, J. N.	235, 368
LeConte, L. J.	308
Leding, A. R.	37
Ledoux, J. W.	115
Lée, C. H.	91, 131, 223, 226, 247, 314, 357, 361, 370, 371, 480
Lefebvre, W. C.	209, 337
Lefeldt, W.	207
Legg, W. A.	501
Leggett, S.	327, 432
Legler, G. H.	453
Leijdesdorff, Louis	180
Leliavsky, S.	68
Lemarchands, J.	259
Lemmet, J.	332
Lemus, L.	470
Lennie, A. B.	106, 461
Lepore, O.	270
Leppan, H. D.	11
Lester, F. E.	237
Leuroy, L. F.	120
Levegue, L. T.	384
Levert, J. H.	47, 406
Levitt, Boris	9
Levy, I. I.	113
Levy-Salvador, Paul	10
Lewis, A. D.	346, 424, 533
Lewis, A. H.	159
Lewis, C. I.	43, 221
Lewis, E. B.	237, 477
Lewis, F.	149
Lewis, G. M.	133
Lewis, J. H.	175, 176, 223, 306, 308, 490, 491, 492, 493, 494

	Page
Lewis, M. R.	44, 79, 90, 131, 155, 490, 493
Li, H.	390
Liernur, G. A.	416
Lindley, E. S.	115, 244, 283, 435, 442
Lindquist, E. G. W.	118
Linfield, F. B.	165
Lingenfelter, N. H.	520
Linscott, C. O.	108, 504
Lipman, C. B.	143
Lippincott, Isaac	533
Lippincott, J. B.	34, 247, 254, 286, 315, 342, 358, 359, 370, 373, 520, 539
Lippincott, J. P.	528
Litchfield, H. C.	331, 500
Livingston, B. E.	181
Livingston, G. J.	181
Llaurado, Andre	176, 517
Lloyd, J. W.	407
Lobaton, F. V.	462
Lochridge, J. L.	292, 298, 522
Lombard, T. A.	35, 365
Lombardini, Elia	452
Long, J. R.	179
Long, W. S.	337
Longwell, J. S.	190, 296
Loomis, F. M.	202
Loomis, H. F.	39, 92
Lopez, L. D.	516
Lord, L.	88
Loughridge, R. H.	197, 314, 315
Lovett, A. E.	112
Lowe, T. R.	18
Lownhaupt, Frederick	97
Lowry, R.	488
Lowther, G.	136, 304
Lubin, D.	535
Lucas, A.	418
Lucchetti, Antonio	559
Luce, W. F.	200
Luchetti, A. A.	560
Luiggi, Luigi	414, 455, 456
Lutha, H. R.	112, 185
Luthra, H. R.	162
Lyall, J. B.	445
Lyman, F.	104
Lyman, F. C.	564
Lyman, R. R.	65
Lyon, A. V.	347, 348

	Page
Lyon, T. L.	314
Lytton, L. R.	37
MacArthur, H. A.	43, 343, 445
MacBeth, I. G.	35, 36, 366
MacBride, J. F.	129, 148
McCabe, W. L.	228
McClatchie, A. J.	44, 145, 338
McClellan, E. C.	110, 132
McClellan, G. M.	172
McClellan, L. N.	122, 237
McClure, W. F.	305, 322, 368, 375
McCollom, W. C.	21
McConnell, I. W.	508
McCorkle, W. H.	315
McCormick, J. H.	369
McCrory, S. H.	326
McCutcheon, W.	41, 345
McDermid, H. B.	121
McDiarmid, R. W.	151, 343
MacDonald, A. B.	50, 460
Macdonald, Murdoch	409, 415
McDowell, C. H.	37, 519
McDowell, R. H.	11
MacFadyen, J.	352
McFall, L.	552
McGaffey, E.	403, 545
McGanney, F. L. jr.	570
McGeachy, Edward	559
McGee, W. J.	109, 316, 326
McGeehan, Paul	274
McGeorge, W. T.	88, 155
McHenry, S. A.	60, 521
McIntire, M. M.	276, 278
Mack, R. A.	36, 541
McKee, C.	53, 84
Mackenzie, A. T.	435
Mackenzie, N. F.	19, 416, 443
McKenzie-Taylor, E.	117
Mackie, C. P.	463
McKinney, H. G.	347, 352
MacLean, R.	239
McLallen, H. C.	237
MacLane, J. W.	319
MacLaren, J. R.	7
McLaughlin, W. W.	22, 33, 55, 91, 93, 94, 140, 146, 313, 320, 535, 567
McLean, R. R.	379
McMurry, C. A.	341
McNiece, K. S.	440
McNown, W. C.	164
McPhail, H. F.	359
Macpherson, F. H.	101, 198, 202, 357,

	Page
McQueen, F.	160
Magness, J. R.	92, 324
Main, T. F.	37, 129, 139, 432, 435, 439
Mainardi, G.	205
Makhotra, J. K.	85, 156
Makinson, A. M.	144, 349
Malberti, F.	560
Malhotra, J. K.	117, 261
Mallet-Prevost, Severo	308
Malone, G. W.	400
Malz, L. U.	285
Manger, W.	251, 509
Mangin, L.	330
Mann, C. F. A.	558
Manning, James	313
Manquene, J.	333
Manrin, G.	215
Manson, Marsden	257, 360
Mantle, H. L.	43
Marcellus, J. B.	127, 237, 240, 460
March-Phillipps, L.	524
Marcotte, E.	208
Mares, R.	29, 331
Marks, J. R.	86, 485
Markus, Eduard	421, 456
Marpie, A.	363
Marquis, J. C.	522
Marr, J. C.	37, 87, 116, 118, 148, 197, 341
Marre, Francis	421
Marriott, C.	7
Marsh, B. W.	398
Marsh, G. P.	12
Marshall, R. B.	431
Martin, Henry	517
Martin, H. S.	159, 354
Martin, J. H.	32
Martin, P. F.	332, 440
Martin, R. D.	39, 92
Marting, Hans	199
Martinez, D. E.	517
Martinez, J. C.	517
Martinez de Bujanda, E.	517
Martinez-Moya Crespo, Salvador	514
Marts, R. O.	82
Marvin, G.	548, 569
Mason, F. W.	40
Mason, L. M.	41
Mason, M.	554
Mason, S. C.	49

	Page
Mateor, R. B.	240
Mathews, J. L.	533
Mathews, O. R.	53, 259, 325, 328, 511, 569
Mathieu, G.	83, 215
Matson, H.	231
Matthes, G. H.	483
Matthew, R.	369, 479
Matthews, R. B.	156
Mauger, H.	152, 481
Mauldin, D. T.	212
Mauny de Mornay, Joseph de	176, 457
Mawson, E. O.	19
Mawson, K. T.	486
Maxcy, J. W.	236
Maximov, N. A.	84
Maxwell, G. H.	57
Maxwell, Hu	118
Maxwell, Walter	426
Mayer, R.	495
Mead, A. D.	486
Mead, D. W.	62
Mead, Elwood	15, 16, 22, 24, 25, 56, 58, 62, 66, 76, 77, 78, 79, 81, 90, 91, 93, 96, 97, 100, 118, 122, 164, 165, 172, 176, 194, 220, 221, 243, 244, 246, 247, 253, 254, 255, 293, 295, 301, 303, 304, 306, 307, 310, 311, 344, 346, 347, 351, 362, 374, 401, 402, 404, 405, 455, 511, 525, 527, 528, 534, 535, 537, 539, 540, 543, 545, 555, 561, 562, 564, 566, 568, 573
Meade, N. G.	229
Meade, W. E.	148
Means, T. H.	68, 94, 162, 256, 314, 336, 355, 357, 367, 415, 527
Medley, J. G.	17
Meeker, R. I.	159, 304, 323, 545
Mehta, M. L.	85, 156, 258, 259
Meier, E. E.	67
Meinzer, O. E.	312, 316, 471
Meister, L.	209

	Page
Melcher, William	394
Melende, E.	516
Mena, U.	96
Mendenhall, W. C.	317, 320, 361
Mensching, J. E.	157
Merl, F.	18
Merrill, A. P.	113
Merrill, L. A.	142, 150, 158
Merrill, O. C.	122, 513
Mertz, W. M.	18, 35, 140, 363, 379
Messenger, C. B.	353, 359
Metzger, Chr.	324, 328
Meyer, C. L. W.	170, 245
Meyer, H. H. B.	306
Meyer, L.	370
Meyier, J. E. de	458
Michaelis, Kurt	127, 162
Michigan state horticultural society	40
Mieder, F.	207
Mieir, W. O.	247
Mihailoff, I.	353
Mikhalchenkov, S. S.	316
Miller, A. M.	413
Miller, C. D.	194, 482
Miller, D. G.	124
Miller, H. L.	159
Miller, J. J.	15
Miller, W. C.	33
Millet, C.	108
Millet, C. A.	73
Mills, A. A.	41, 134
Mills, E. C.	299
Mills, J. jr.	35, 365
Mills, J. W.	175
Mills, Robert	510
Mindeleff, Cosmos	566
Miner, J. H.	275
Mitchell, G. A.	196, 204, 210, 212, 213, 408, 420, 481
Mitchelson, A. T.	80, 291, 314, 319
Molesworth, H. W.	413
Molina, V. M.	560
Molony, E. A.	446
Moncrieff, C. S.	77, 415
Monge, J.	505
Montagu, A. M. R.	296
Montana. Commission on conservation	308
Montez, J. G.	559, 560
Montgomery, J. T.	132, 219, 428

	Page
Moore, A. J.	272
Moore, L. C.	136
Moorhouse, L. A.	134, 135
Mooring, D. C.	126, 214
Moreno, Frederico	508
Moreno, M.	155
Morgan, A.	88, 293, 346
Morgan, L. R.	90, 255
Moritz, E. A.	26, 119, 129, 184, 227, 272, 473, 524, 554, 555
Morrison, Hunter	236, 463
Morrow, G. E.	487
Morse, S. F.	141
Mortensen, E.	93
Morton, J. C.	207
Morton, W. E.	283, 442
Morton, W. R.	48, 470
Moser, Henri	342
Moses, B. D.	11, 240
Moses, D.	88
Moubray, G. A. de C. de	420
Moulton, M. M.	179
Moulton, R. H.	73
Mouret, G.	192
Moynihan, E. J.	157
Mrazek, L.	497
Muckleston, H. B.	21, 174, 194, 262, 387
Mueller, Traugott	537
Mulholland, J.	253, 548
Muller, Adam	18, 175
Muller, Alexander	212, 213, 216
Mulligan, T. M.	202
Mundy, H. G.	496
Muntz, Achille	52
Muntz, M. A.	422
Munyo, J. A.	507
Murdock, H. E.	22, 59, 76, 124, 135, 152, 184, 189, 198, 231, 237, 313, 473, 532, 543
Murphy, D. W.	21, 102, 124, 187, 256, 258
Murphy, E. C.	242
Murray, Stuart	189, 341, 347
Musgrave, M. E.	526, 562
Musselman, H. H.	321
Myers, A. J.	471
Myrtle, F. S.	478

	Page
Nachtweh, A.	73
Nadault de Buffon, Benjamin	10, 169, 280, 421, 454
Nagle, J. C.	520
Nalder, W. H.	72
Nandi, S. C.	285
Nariman, R. K.	258
Nathews, J. L.	12
National reclamation association	27
Neal, E. H.	90, 183, 226, 238, 428, 431
Neave, O.	159
Nebraska state irrigation association	27, 477
Needham, B. E.	201
Nehru, S. S.	231
Nelson, B. S.	47
Nelson, D. H.	156
Nelson, Elias	87, 430
Nelson, J. W.	363
Nelson, Knute	302
Nelson, W. R.	61, 399
Nemenyi, P.	119
Nesper, F.	265
Nethersole, M.	446
Nettleton, E. S.	79, 396
Neves, L. B.	509
Nevill, F. A.	270
New Mexico, State board of water commissioners	171
New South Wales. Committee on public works	351
New South Wales. Water conservation and irrigation commission	351, 352
Newcomer, A. W.	74, 264, 284, 483
Newell, F. H.	8, 12, 13, 14, 15, 21, 56, 57, 120, 175, 187, 212, 244, 246, 247, 248, 249, 250, 251, 254, 329, 404, 425, 445, 526, 534, 538, 542, 548, 562, 564, 566, 567, 569
Newell, J. P.	80
Newell, H. D.	118, 273
Newell, R. J.	552
Newlands, F. G.	80, 253, 312, 546, 562, 568
Newman, R.	10, 19, 138, 155, 240, 383
Newman, R. W.	503
Newmyer, W. R.	105
Niccoli, Vittorio	114

	Page
Nichols, F. B.	460
Nichols, G. H.	431
Nicolau, D. J.	416, 515, 539
Nidever, C. A.	366
Nikolitch, M.	271, 497
Nimmo, Joseph, jr.	568
Missley, C. H.	147, 196, 481
Missley, W. B.	200
Noble, E. G.	38
Noftzger, L.	481
Nolder, W. H.	288
Norcross, C. A.	105, 233, 478, 479
Noriega, J. S.	465
Norton, A. C.	296
Norton, J. E.	29, 31, 33, 130, 471, 474
Novelli, Novello	46
Nowell, H. T.	33, 111
Nuckols, S. B.	50, 56, 132, 135, 428, 555
O'Callaghan, M. A.	132
Ockerson, J. A.	401
O'Connell, H.	555
Oddie, T. L.	253
O'Donnell, I. D.	123, 525
Ogden, H. C.	109
Olberg, C. R.	338
Oldham, Hugh	345
Olin, W. H.	6, 266
Olmstead, L. B.	324
Olmsted, F. H.	371
Olmsted, R. W.	265, 372
Olry, R.	423
Oriental development co., ltd.	343
Orive y Alba, A.	418, 484
Osgood, E. P.	100
O'Shaughnessy, M. M.	51, 426
Ossadchiy, V. P.	275
Ott de Vries, P. J.	563
Otten, R. J.	139
Overly, F. L.	42, 82, 200
Packard, W. E.	31, 130, 139
Page, A. W.	131, 248
Page, R. L.	136, 559
Painter, J. H.	127, 195
Palmer, A. E.	93, 148, 163
Palmer, F.	252, 434
Palmer, George	451
Palmquist, D. R.	241
Pantanelli, E.	453
Paon, M.	142, 422

	Page
Pardo, M. L.	514, 515, 516
Pareto, Raphael	14, 455
Park, F. W.	24
Parker, Henry	439
Parker, P. a. M.	7, 12
Parks, T. H.	127, 201
Parrish, R. H.	240
Parshall, A. J.	172, 571
Parshall, R. L.	155, 158, 159, 190, 283, 290, 297, 299, 323
Parsons, E.	531
Parsons, F. W.	525, 548
Parsons, T. S.	146, 149, 573
Passa, Jaubert de	518
Patch, W. W.	510
Patel, B. S.	147
Patrick, H. R.	335
Patterson, C. L.	302, 458
Patton, John	540
Pattullo, T. D.	387
Paul, B. H.	82
Paul, C. H.	61, 65
Paul, G. F.	506
Paustian, P. W.	270, 433
Paxman, J. W.	135, 550
Payne, J. E.	48
Pearce, William	386
Pearson, E. N. jr.	97
Pearson, H.	56, 570
Pearson, S. V.	106, 442
Pease, C. H.	219, 464
Pease, N. S.	37
Peel, Sidney	408
Felton, W. C.	407
Penet, F.	332, 334, 335
Penfield, F. C.	77, 412
Pennycuick, John	434
Pepoon, G. W.	459
Pereskokov, M. F.	39
Perkins, A. J.	146, 160, 164, 186, 348
Perkins, W.	8
Perreau, E.	281
Perry, T. O.	229
Peschaud, R.	20
Peters, F. H.	187, 316, 385
Peters, M. F.	231, 520
Peterson, O. W.	354
Peterson, W.	549
Petit, A.	81

	Page
Peto, R. H. K.	82
Petrov, E. G.	342
Peyre, G.	281
Phelps, C. S.	406, 480
Phenis, Albert	522
Phillips, A. E.	14
Pickett, J. E.	362
Pierce, H. J.	540
Pilz, Daniel	10
Pinchot, Gifford	18, 21
Pingrey, H. B.	101, 131
Pino, A. L.	202
Piper, A. M.	317, 429
Fishkin, B. A.	523
Pitt, J. M.	149
Pittman, D. W.	31, 33, 45, 49, 85, 87, 93, 138, 139, 140, 141, 148, 552
Pittman, E. F.	346
Plehn, G. A.	569
Pohlman, G. G.	336
Pollock, N. A. R.	140
Pomeroy, J. N.	179, 310
Poor, E. L.	281
Poorman, A. P.	104
Pope, J. B.	190
Portocarrero, J. N.	231, 509
Post, W. S.	376
Poston, C. D.	12
Potterson, C. L.	393
Pottgen, August	561
Potts, G. G.	131
Potts, G. G. St. C.	141
Powell, J. W.	551, 567
Powers, LeRoy	33, 54, 474
Powers, W. L.	10, 31, 42, 45, 49, 59, 84, 87, 89, 93, 110, 116, 128, 133, 134, 139, 140, 142, 154, 155, 189, 190, 229, 240, 318, 489, 490, 492, 493
Poyaunne, A.	451
Preddy, J. R.	13
Presser, A.	19
Preston, P. J.	395
Preston, T. B.	412
Preuss, A. B.	180
Preuss, H.	204

	Page
Price, C. R.	11, 125, 532
Price, D. D.	171
Price, W.	451
Pridmore, J. C.	147
Prince, G. T.	115
Prinsep, E. A.	435
Prizer, J. A.	157, 202
Prostakov, P. E.	498
Provost, K.	432
Frugh, A. E.	405
Proctor, R. R.	63
Prowde, O. L.	65
Puga, G. D.	11
Punjab. Forest department	434
Punjab. Public works department. Irrigation branch	261, 267, 271, 278, 279, 289, 432, 433, 443, 445, 447, 448, 449
Puri, A. N.	160, 192, 258, 259
Pyle, F. D.	23, 27, 398
Queensland. Irrigation and water supply commission	343
Quercu, F. C.	46, 151
Quevedo, J. C.	507
Quinn, G.	52, 348
Rafter, G. W.	212, 321
Ram, Gurdas	59
Ramadoro, A.	454
Rampazzi, A.	456
Ramponi, U.	199
Ramsay, J. T.	45, 349
Ranser, C. E.	112
Randolph, C. F.	175, 306
Rane, F. W.	196, 215
Rangasamiengar, C.	234
Rankin, E.	352
Ransom, A. E.	564
Ransom, H. U.	79
Raschbacher, H. G.	429, 572
Rawn, A. M.	283
Read, F. M.	92, 143
Read, G. H.	424
Ready, L. S.	375
Ready, M. E.	340
Ready, O. T.	62
Reat, S. C.	387
Reed, W. M.	24, 534
Reos, R. W.	43, 221
Reeves, E. L.	201
Rega, A.	507
Regal, A.	107
Reichard, D. F.	138

	Page
Reid, A. G.	265
Reil, O. E.	184
Reinhold, F.	315
Reinke, E. A.	208
Rey, J.	352
Reybold, E. C. jr.	228, 232
Reynoso, A.	52
Rice, L. M.	168
Rice, M. M.	530
Richardson, A. E. V.	32, 352
Richardson, H. K.	391
Richardson, J. W.	203
Richman, E. S.	41
Rider, J. H.	106, 545
Ridgaway, C. B.	182
Riggs, H. E.	554
Rigotard, L.	6
Rinehart, E. F.	146, 431
Rineman, M. N.	9
Rio, Rino	457
Risdon, P. J.	347
Risler, C. E.	7
Risler, E.	17
Risser, R. G.	197, 361
Ritchie, D. W.	29, 136, 489
Ritter, Franz	20, 410
Robbins, L. B.	190
Robbins, S. B.	474
Robbins, W. W.	156
Roberts, C.	80, 419
Roberts, F. C. jr.	208
Roberts, H. N.	209, 521
Roberts, R. H.	101, 193, 281, 282
Robertson, C.	29, 489
Robertson, D. W.	32, 53, 81, 82, 91, 397
Robertson, Laurence	437
Robertson, R. D.	30, 46, 133, 359, 363, 366
Robertson, W.	359
Robey, O. E.	45, 91, 205, 206, 240, 325, 470
Robin, J.	452
Robinson, A. G.	420
Robinson, C. F.	496
Robinson, C. S.	181
Robinson, H. F.	112
Robinson, J. S.	182
Rochussen, J. J.	458
Rockhold, J. E.	211

	Page
Rockwell, F. F.	8, 126, 127, 532
Rockwell, W. L.	48, 522
Rockwood, E. E.	135
Roddis, E. E.	545
Rodey, P. C.	483
Rodin, J.	391
Rodrigues de Brito, F. S.	505
Roe, J. W.	113
Roeding, F. W.	50, 364
Rogers, E. L.	311
Rogers, M. T.	79
Rogers, S. J.	224
Rohwer, Carl	76, 181, 191, 296, 299
Roland, Arthur	8
Rolland, Georges	332
Romijn, D. G.	288
Ronna, Antoine	17
Rooke, Thomas	351, 367
Root, E. R.	354
Rorty, J.	530
Rosa, J. T.	314
Rosborough, J. F.	214, 215, 216, 300
Roseau, H.	334
Ross, D. W.	110
Ross, J. C.	59, 186, 415
Ross, T. W.	537
Ross, W. H.	152
Rossberg, H.	210
Rossi, E.	83
Rosum, V.	497
Rothe, J.	210
Rothery, S. J.	366
Roudaire, F. E.	333
Roule, L.	330
Rounds, M. B.	34, 201, 356, 367
Rouse, H. M.	101
Roux, E.	215
Row, C. K. S.	434
Rowland, E. T.	12
Roy, R. L.	438
Royce, R. P.	145
Rubio, R.	130
Rudolfs, W.	211
Ruettgers, A.	262, 272, 554
Ruggiero, C.	201
Ruiz-Zorrilla, L. R.	220
Russel, I. C.	317, 428, 557
Russel, J. C.	24, 475, 477, 527
Russell, J. R.	73, 418
Rutherford, D. M.	257, 373

	Page
Ruttkay, Udo de	427
Ryland, E.	346
Ryon, A. M.	9, 189
Ryves, R.	442
Sabnis, T. S.	443
Sachs, E.	414
Saitcew, J. von	505
Salisbury, G. N.	13
Salmon, Cecil	32, 510
Salomon, O. V.	507, 508
Salph, A. V. jr.	340
Salter, A. G.	40, 198
Salvador, P. L.	421
Sanborn, J. W.	12, 138, 196
Sanchez, M. C.	228
Sandvig, C. R.	470
Sanford, G. O.	58, 269, 539, 565
Sarathy, R. P.	261, 449
Sarkar, Bhutnath	440
Saucedo, V.	468
Sauder, P. M.	186, 388
Sauzede, A.	330
Savage, D. A.	45, 89, 477
Savage, H. N.	70, 475
Savage, J. L.	63, 64, 74, 76, 220, 266, 489, 532
Saville, R. J.	47, 146
Scattergood, E. F.	399
Schafer, E. G.	147
Schanck, F. R.	338
Schenkel, Karl	166, 303
Scherf, Emil	427
Schiller, Rudolph	162
Schloesing, M.	209
Schmidt, R.	16
Schmier, Louis	109
Schmitt, F. E.	94, 250, 252, 253, 542, 568
Schneck, H. W.	129
Schoenefeldt, O.	423
Schoklitsch, A.	119
Schonnopp, Gunther	9, 198, 209, 213
Schoonover, W. R.	34, 36, 44, 378
Schram, E.	55
Schulz, E.	235
Schulz, W.	187
Schumacher, A.	200
Schurk, G. A.	43
Schuster, C. E.	49, 492
Schuyler, J. D.	50, 69, 79, 323, 425, 544

	Page
Schuyler, P.	70, 492
Schwalen, H. C.	39, 88, 339
Schwarz, E. H. L.	499, 505
Schweder, V.	212
Scobey, F. C.	60, 112, 113, 116, 155, 187, 264, 277, 278, 293, 296
Scofield, C. S.	20, 106, 125, 130, 133, 137, 139, 144, 146, 151, 152, 157, 159, 160, 163, 195, 224, 244, 248, 255, 256, 257, 320, 476, 538, 545, 558, 562
Scott, E. K.	119
Scott, J. M.	112
Scott, John	7, 13, 266, 318
Scott, W. A.	239, 269, 299, 488
Scott-Moncrieff, C. C.	281, 287, 304, 416, 417, 420, 421, 455, 514
Scougall, H.	13
Scroeder, O.	206
Scudder, H. D.	318, 490
Seabrook, C. F.	202, 480
Sears, F. C.	49
Sears, P. B.	242
Seaver, T. W.	23
Secrett, F. A.	200
Seely, F. B.	112
Segur, A. B.	444
Selby, H. E.	135
Selivanoff, Th.	153
Selwyn-Brown, A.	461
Semyonov, S.	523
Serensen, O. W.	406
Sers, J.	335
Seshachar, R. K. R.	449
Sestier, F.	203
Severance, George	218, 553
Shafer, E. G.	50
Shand, K. R.	504
Shanks, F. L.	133
Shantz, H. L.	149
Sharma, K. R.	276, 288, 292
Sharp, L.	24
Sharp, L. T.	36, 139, 377
Sharrov, E. A.	523

	Page
Shattuck, Obil	29, 136, 230, 489, 492
Shaw, S. B.	239
Shear, W. V.	140
Shedd, H. G.	98
Shepard, J. H.	511
Shepherd, A. N.	36, 139, 344, 346
Shepherd, J. D.	36, 494
Shepherd, R. E.	96
Shepstone, H. J.	417, 441
Sheriger, P. M.	427, 525
Sherman, C. B.	526
Sherrard, G. C.	436
Shoemaker, R. W.	358
Shomaker, J.	539
Shutt, F. T.	130
Sievers, F. J.	50, 147, 257
Sill, L. M.	537
Simms, A. L.	380
Simoncini, P.	229, 454
Simpson, E. H.	572
Simpson, T. R.	159, 184, 374
Sinclair, G. F.	168, 529
Singer, J. M.	360
Singh, D. N.	443
Singh, S. A.	104, 435
Singh, S. K.	104, 435
Singleton, H. P.	29, 31, 33, 131, 144, 554, 557
Sjogren, O. W.	236, 477
Skerrett, R. G.	9, 379, 521, 537
Skinner, C. W.	9, 144
Skinner, F. G.	12
Slagsvold, P. L.	130, 471, 474
Slater, E. W. T.	436
Slater, J. R.	547
Sleight, R. B.	86, 182, 185, 194
Slichter, C. S.	460
Smalley, E. V.	540
Smith, A.	315
Smith, A. A.	122
Smith, C. W.	68, 416
Smith, E. G.	12
Smith, F. F.	62, 465, 569
Smith, G. E. P.	8, 25, 35, 65, 87, 95, 118, 133, 135, 162, 176, 193, 207, 208, 235, 241, 256, 299, 300, 307, 311, 316, 317, 335, 336, 337, 339, 359, 399, 401

	Page
Smith, J. R.	18
Smith, J. W.	33
Smith, L. J.	129, 204, 230, 556, 557, 565
Smith, R. B.	282, 433, 456
Smith, R. T.	485
Smith, William	128
Smitherum, Harrison	84, 362
Smyth, Piazza	236
Smythe, W. E.	7, 24, 179, 255, 419, 548, 562, 568
Snelgrove, E. C.	67, 441
Snelson, H. W.	49
Snelson, W. H.	13, 57, 91, 384, 385
Snow, F. C.	295
Soergel, Herman	330, 333
Sokolov, D. Y.	283
Soldano, F. A.	239, 508, 510
Soldati, V.	453
Solomon, A. G.	238
Somers, L. A.	206
Sonderegger, A. L.	383
South Africa. Irrigation commission	330, 333, 334, 499
South Australia. Irrigation and drainage commission.	343
South Dakota state planning board	63
Spalding, V. M.	527
Sparks, E. E.	13
Sparling, R. W.	104
Spellmeyer, A. L.	512
Spencer, A. P.	215
Spencer, G. K.	201, 513
Spooner, L. H.	213
Springer, J. F.	432, 539, 572
Spuler, A.	199
Squire, W. L.	560
Stabler, Herman	159
Stacbner, F. E.	60, 194, 196, 198, 199, 204, 205, 407, 408, 420, 481
Stamps, W. L.	434
Stanley, F. W.	22, 196, 301, 408, 420
Stannard, J. D.	20, 90, 294, 336, 430
Statius Muller, G. A. L.	406
Stead, R. J.	131, 384
Steele, C. F.	138
Steele, F.	126

	Page
Steele, J. W.	395
Stein, K.	209
Steinel, A. T.	563
Stephens, George	20
Stephenson, James, jr.	429
Stephenson, R. E.	25
Stevens, G. C.	232
Stevens, J. C.	109, 111, 116, 118, 120, 123, 188, 326, 494, 514, 555, 562
Stevens, J. H.	121
Stevenson, H. E. M.	469
Stevenson, L.	203
Steward, W. G.	189, 190, 278
Stewart, G.	93, 148, 552
Stewart, Henry	14
Stewart, J. M.	486
Stewart, J. T.	12
Stewart, P. H.	317
Stewart, Robert	8, 131, 133, 151, 152, 258, 326, 546
Stewart, R. L.	149
Stiemer, H.	210
Stockton, R. S.	57, 186, 187, 194, 298, 388
Stockwell, W. E.	512
Stokes, W. E.	208
Stolbrand, V. E.	338
Storgaard, L. H.	19, 23, 25, 370, 377, 378
Stotherd, C. E.	441, 446
Stout, J. H.	487
Stout, O. V. P.	16, 110, 183, 283, 329, 477
Stovall, S. L.	296
Stover, A. P.	85, 90, 490, 551
Straits settlement. Drainage and irrigation depart- ment	424
Strange, W. L.	19, 67, 75, 76, 273, 318, 435, 499
Stratton, G. E.	284
Stratton, G. F.	25, 137, 513, 549
Streed, A. M.	30, 48, 201, 203, 470, 471
Strong, A. M.	325
Stuart, William	45, 143
Sturgeon, G. B.	51, 426
Sturtevant, E. L.	181
Suarez, A.	64
Sudan. Irrigation department	259, 331

	Page
Sullivan, V. L.	481, 482
Summers, T. H.	129, 392
Supino, G.	268, 269
Surr, G.	152
Suter, F.	131
Sutton, C. W.	246, 505, 507, 508, 509, 510
Sutton, W. G.	345, 437, 500
Swan, C. H.	279
Swaren, J. W.	319
Sweet, S. L.	393
Sweetman, H. L.	20
Swendsen, G. L.	111
Syfret, G. R.	45, 496
Symmonds, R. S.	312
Sykes, G. G.	268
Sypes, G. G.	276
Szobotka, Paul	205
Tacke, Bruno	424
Taft, L. R.	15, 126
Tagliarini, A.	558
Tait, C. E.	47, 80, 100, 235, 321, 327, 364, 368, 372, 397
Tait, P. G.	347
Takisch, J. R.	569
Talbot, A. N.	113
Tallant, C. H.	360
Tannatt, E. T.	184, 190
Tarchetti, A.	46
Tathan, William	128, 424
Taylor, C. A.	34, 36, 43, 86
Taylor, E. M.	59, 84, 85, 114, 118, 156, 257, 258, 265, 408, 409, 412, 440
Taylor, E. P.	41, 83, 134
Taylor, H. C.	56, 132, 527
Taylor, H. S.	349
Taylor, J. T.	381
Taylor, L. H.	329, 480
Taylor, Meadows	449
Taylor, T. U.	47, 61, 79, 399, 521
Taylor, W. E.	12
Taylor, W. T.	325
Tchikoff, V. V.	497
Teague, D. L.	40

	Page
Teale, R. P.	6, 23, 57, 58, 81, 85, 95, 96, 103, 104, 144, 170, 218, 219, 243, 244, 245, 254, 255, 307, 311, 312, 393, 428, 455, 475, 482, 519, 527, 529, 534, 536, 541, 543, 551, 554, 570
Teilman, I. H.	191
Tempary, H. A.	52, 424
Temple, A. R.	467
Templeton, J.	39, 93
Tennent, R. B.	86, 135, 146, 485, 486
Teodoro, A. L.	147
Terrail, A. B.	230
Tesche, W. C.	25, 30, 40, 44, 88, 102, 353, 357
Texas. Board of water engineers	169
Thayer, W. W.	426
Thiem, A.	317
Thiem, T. G.	317
Thiessen, A. H.	328, 548
Theburn, J. B.	286
Thom, C. C.	134, 327
Thomas, E. E.	36, 154, 379
Thomas, F.	105, 163, 331, 396
Thomas, George	167, 550
Thompson, D. J.	353
Thompson, J.	202
Thomson, E. H.	145
Thornber, W. S.	127
Tibbetts, F. H.	478
Tiffany, R. K.	252, 301, 405, 555, 558, 563
Tilden, F.	394, 432
Tillman, C.	202
Tillotson, C. C.	339, 401
Tindale, E.	63
Ting, Y.	153
Tipton, A. S.	481
Todd, O. J.	321, 390, 391
Toit, E. du	16
Tojo, K.	154
Tolley, H. G.	235
Tootell, R. B.	220, 473
Torricelli, Giacomo	515
Tosi, Cleto	457
Tottenham, P. M.	57, 414
Tourney, J. W.	117

	Page
Townsend, C. O.	50, 147, 546
Townsend, T. L.	149
Tracy, F. G.	248, 540
Tramento, Raffaele	456
Trash, F. E.	191, 316
Trauger, G. W.	241, 380
Tricomi, B.	234
Trimble, R. E.	113
Tripier, Louis.	167
True, G. H.	178
True, J. B.	571
Tubergen, J. van	499
Tucker, C. F.	242, 383
Tucker, G. M.	18
Turnbull, G.	462
Turner, C. D.	94
Turner, C. W.	486
Turner, G.	487
Turpin, H. W.	13, 85, 93, 141, 501, 504
Ulloa, C. R.	293, 470
Ullrick, C. J.	64, 550
Ulrich, J. C.	564
Union Pacific railroad company	533
U.S. Dept. of agriculture. Office of experimental stations	29, 72, 89
U.S. Dept. of agriculture. Office of irrigation inquiry	223, 321, 322, 544
U.S. Engineer department	78, 224, 400
U.S. General land office	54, 173, 177, 473
U.S. Geological survey	28
U.S. Patent office	11
U.S. Bureau of reclamation	189, 220, 222, 223, 224, 242, 243, 244, 306, 340, 372, 403, 472, 526, 528, 544, 565, 573
U.S. Department of state	219
Unkles, W.	34
Uppal, H. L.	59, 60, 71, 84, 114, 118, 261
Utah state planning board	292, 552
Utting, F. A.	18
Vaidhiana, V. I.	59
Vaidhianathan, V. I.	112, 162, 185, 191
Vaile, R. S.	84, 109
Valdes, A. M.	68, 467
Valenzuela, J. G.	467
Van Brussel, J. B.	414, 415
Vandecaveye, S. C.	199

	Page
Vanderhoof, H.	385
Vandeventer, E. A.	71, 513, 549
Van Hise, C. R.	548
Van Horn, R. B.	100
Van Meerten, E. J.	271, 500
Van Ornum, J. L.	329, 382
Van Sandick, R. A.	458, 546, 563, 564
Van Winkle, Franklin	113, 115
Vass, A. F.	56, 570
Vassilyev, V.	39
Veatch, F. M.	211
Veatch, N. T. jr.	159, 163
Vedoya, A. G.	323
Veihmeyer, F. J.	41, 42, 44, 85, 134, 164, 257, 318, 359, 364, 365, 377
Venable, R.	29, 377
Venstrom, Cruz	30, 56, 107, 478, 479, 480
Vere, R.	252, 448
Vernon, J. J.	112, 237
Vernon-Harcourt, L. F.	290
Veronese, G.	452
Verwoerd, A. L.	264
Vianne, Edmond	20
Vick, F. H.	451
Victoria. Rivers and water supply commission	349
Victoria. Water supply department	349, 350
Vicuna, S. M.	174
Vieser, W.	515
Villeroy, Felix	18, 175
Vilmorin, J. de	50, 559
Vincent, C. C.	487
Vincent, L.	7
Vincent, W. D.	406, 553
Vinson, A. E.	148
Visentini, M.	272, 290
Vivian, C. H.	554
Vlugter, H.	285, 293
Vollmer, G. F.	570
Volpi, C. A.	64, 273
Volz, E. C.	127
Von Blon, J. L.	361, 530
Von Horn, A.	342
Von Widdern, H. C.	233
Voorhees, E. B.	91, 406, 407, 480
Vrooman, F.	547
Wade, L. A. B.	346, 348
Wadsworth, H. A.	21, 188, 199, 200, 202, 363
Wahlberg, H. E.	357

	Page
Wahlberg, H. F.	362
Waitz, P.	464
Wakefield, C. C.	98
Walch, G. T.	434
Walden, J. B.	140
Walker, A. L.	100, 485
Walker, G. B.	550
Walker, G. M.	107
Walker, H. B.	459
Wallace, L. E.	460
Wallace, Robert	441
Waller, O. L.	101, 226, 237, 556
Waller, P.	132
Walsh, G. E.	249, 568
Walter, R. F.	63, 544, 546, 553
Waltman, W. D.	396
Wantland, C. E.	169
Ward, J.	75, 76
Ward, W.	62, 428
Wardlaw, H. H.	40
Ware, E. F.	171, 459
Warne, W. E.	122, 399, 565
Warner, C. E.	126
Warren, P.	15
Washington, W. D. H.	400
Washington irrigation institute	27
Watrous, F. L.	9, 394
Watson, H. R.	80, 181, 292, 552
Watson, J. D.	214
Watt, D. A. F.	74
Watts, H. V.	519
Watts, William	75
Wauters, Carlos	125, 174, 506, 508, 509, 510, 543
Waynick, D. D.	87, 153, 300, 365, 366
Weakly, H. E.	90, 236, 237, 477
Weaver, J. E.	22
Webb, A. L.	239
Webb, F.	36, 496
Webb, J. M.	485
Weber, R. C. E.	248, 293, 541
Webre, A. L.	181
Webster, N. E. jr.	97
Webster, P. J.	37, 357
Weddell, D. J.	203
Wedderburn, W.	435
Weeks, C.	16
Weeks, David	55, 58, 372, 524
Wegmann, Edward	63
Weinberger, J. H.	72

	Page
Weir, W. W.	124, 227, 315, 317
Weiss, A.	67, 222, 465, 466
Welch, H.	513
Welch, J. S.	31, 32, 84, 88, 128, 134, 142, 149, 254
Weldon, G. P.	34, 43, 356, 370
Wells, A. J.	563
Wells, E. T.	308
Wells, John	80, 326, 419
Welty, O. A.	165
Wenholz, H.	141
Werner, H. O.	92
Wery, G.	17
Wessely, Alfred	192
West, C. H.	58, 372
West, E. S.	198, 320
West, F. L.	328
Westbrook, F. A.	230
Westermann, W. L.	409
Western Canada irrigation association	338
Weymouth, F. E.	400
Whalberg, H. E.	34, 356
Wharton, M. F.	39, 40, 88, 92, 339
Wheaton, H. H.	454
Wheeler, Kittredge	384
Wheeler, W. H.	462
Whelpley, J. D.	566
Whistler, J. T.	95, 223, 490, 491, 492, 493, 494
White, M.	380
White, O. P.	567
White, R.	360
White, W. N.	475
Whitehouse, Cope	412, 413, 417
Whitham, J. M.	311
Whiting, F.	283, 442
Whitmore, A. A.	252, 272, 554
Whitney, D. J.	22, 25, 35, 52, 74, 139, 148, 203, 216, 330, 364, 368, 370, 377, 379, 382
Whitney, J. P.	361
Whitney, Milton	156
Whitson, A. R.	329
Whittington, W. M.	143
Wholers, W. E.	203
Wicke, J. A. W.	214
Wickson, E. J.	15, 42, 48, 126

	Page
Wickson, W. J.	49
Widtsoe, J. A.	8, 21, 23, 86, 87, 91, 107, 124, 131, 132, 133, 142, 145, 146, 150, 152, 158, 159, 182, 224, 243, 320, 325, 551, 562, 563, 568
Wiel, S. C.	311, 524
Wilbur, R. L.	548
Wilcox, E. A.	225
Wilcox, E. V.	135, 142, 143, 232, 244, 360, 370, 405, 411, 472, 474, 479, 494, 528, 558, 571
Wilcox, L. M.	14, 138
Wilcox, L. V.	152
Wilder, F. A.	157, 487
Wilder, H. J.	34, 43, 379
Wildson, B. H.	130
Wiley, H. W.	161
Wilhelm, Albert	245, 394
Wilkie, J.	434
Wilkins, H. F.	48, 495
Wilkinson, J. H.	136
Willard, J. T.	324
Willard, R. E.	147, 522
Willcocks, Sir William	15, 38, 60, 68, 74, 78, 79, 80, 108, 243, 320, 322, 326, 334, 343, 408, 410, 415, 416, 417, 418, 419, 441, 443, 447, 449, 462
Willcox, O. W.	73, 234
Willey, D. A.	13, 18, 65, 71, 278, 338, 341, 364, 395, 512, 530, 533, 549
Williams, A. D.	495
Williams, A. R.	144, 295
Williams, C. E.	511
Williams, C. H.	216, 228
Williams, C. P.	100, 282, 470
Williams, D. H.	143
Williams, E.	203, 206

	Page
Williams, E. S.	407
Williams, G. S.	190
Williams, M. B.	196, 204, 407, 540
Williams, W. H.	35, 131, 372
Williamson, A. V.	436, 439
Willis, R. H.	477
Willits, F. P.	530
Wilsdon, B. H.	151, 257, 261, 444, 449
Wilson, H. M.	14, 18, 238, 438, 528
Wilson, J.	21
Wilson, J. A.	216
Wilson, J. M.	171
Wilson, M. A.	25
Wilson, O.	544
Winslow, C. E. A.	210
Winslow, E. L. jr.	68
Winsor, L. M.	88, 89, 116, 135, 189, 550
Winters, S. R.	329
Wishon, A. G.	122
Wissler, F. H.	42
Withrow, R. B.	215
Woehlke, W. V.	236, 306, 339, 368, 429, 524, 526, 530, 538, 541, 547, 548, 549, 561
Wood, D. C.	135
Wood, J.	485
Wood, W. R.	35, 271, 339, 353, 379, 393, 512
Woods, F. K.	296
Woods, F. W.	265, 280, 291, 436, 437, 450
Woods, R. P.	232
Woodward, S. M.	102, 112
Wooley, R. R.	563
Woore, J. H. S.	71, 219, 344
Work, Hubert	221, 248, 566
Work, P.	138
Works, J. D.	176
Wright, A. E.	190, 429
Wright, C. C.	162, 163, 192, 194, 198, 326
Wright, C. E.	308
Wright, H.	48, 495, 530
Wright, H. M.	412
Wright, Thomas	6, 197

	Page
Wyckoff, A. B.	556
Wyer, S. S.	397
Yarnell, D. L.	74, 112, 117, 321
Yenidunia, Th.	413
Yeo, H. W.	482
Yetter, J. H.	513
Yevfaritsky, A. L.	278
Young, A. A.	115, 141, 246, 367, 406, 491, 494, 512, 535, 536, 565
Young, H. A.	300
Young, H. R.	501
Young, M. G.	169, 529
Young, S. C.	45, 91, 484
Young, W. R.	66, 68, 69, 70, 291, 376, 401, 552
Yvart, J. A. V.	421
Zaitzev, G. S.	38
Zaitsev, L.	497
Zaki, I. M.	418
Zalinski, E. R.	299
Zanelli, P.	456
Zook, L. L.	237
Zoppi, Giuseppe	77, 515
Zorner, Hans	423
Zunker, F.	198
Zyl, J. P. van	504

